

AR 226 - 3296

478

**TRADE SECRET***Study Title*

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

**TEST GUIDELINES:** U.S. EPA Health Effects Test Guidelines  
OPPTS 870.3200 (1998)

OECD Guidelines for Testing of Chemicals  
Section 4: Health Effects, Number 410 (1981)

**AUTHOR:** Carol Finlay, B.A.

**STUDY COMPLETED ON:** September 3, 2003

**PERFORMING LABORATORY:** E.I. du Pont de Nemours and Company  
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**LABORATORY PROJECT ID:** DuPont-11574

**WORK REQUEST NUMBER:** [REDACTED]

**SERVICE CODE NUMBER:** [REDACTED]

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### GOOD LABORATORY PRACTICE COMPLIANCE STATEMENT

This study was conducted in compliance with U.S. EPA TSCA (40 CFR part 792) Good Laboratory Practice Standards, which are consistent with the OECD Principles of Good Laboratory Practice (as revised in 1997) published in ENV/MC/CHEM(98) except for the item documented below. The item listed does not impact the validity of the study.

Test substance characterization and stability analyses were performed at Regional Analytical Services (RAS), Deepwater, New Jersey. None of the aforementioned analyses were performed under Good Laboratory Practice Standards; however, the analyses were conducted in compliance with ISO9002 regulations. All of the analyses are considered valid and sufficient for the purposes of this study.

Applicant / Sponsor: E.I. du Pont de Nemours and Company  
Wilmington, Delaware 19898  
U.S.A.

Study Director: Carol Finlay 3-Sept-2003  
Carol Finlay, B.A. Date  
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Applicant / Sponsor: \_\_\_\_\_  
DuPont Representative Date

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## QUALITY ASSURANCE STATEMENT

Haskell Sample Number(s):

25435

Dates of Inspections:

Protocol: October 21, 2002

Conduct: November 12, 2003

November 19, 2002

November 27, 2002

March 5, 2003

Records, Reports: February 26, 2003

February 28, 2003

March 3, 2003

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July 16, 17, 18, 21, 2003

Dates Findings Reported to:

Study Director: October 21, 2002

February 26, 2003

March 3, 2003

March 5, 2003

March 18, 2003

July 31, 2003

Management: October 21, 2002

February 26, 2003

March 3, 2003

March 5, 2003

March 20, 2003

August 25, 2003

Reported by:

Denise M. Jarney  
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Quality Assurance Auditor

3-September-2003  
Date

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### CERTIFICATION

We, the undersigned, declare that this report provides an accurate evaluation of the data obtained from this study.

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STUDY INFORMATION

Substance Tested: [REDACTED]

Synonyms/Codes: [REDACTED]

• H-25435  
[REDACTED]

Haskell Number: 25435

Composition: [REDACTED]

Known Impurities: [REDACTED]

Sponsor: E. I. du Pont de Nemours and Company  
Wilmington, Delaware 19898  
U.S.A.

Study Initiated/Completed: October 25, 2002 / (see report cover page)

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### STUDY PERSONNEL

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Management: Steven R. Frame, D.V.M., Ph.D.

Anatomic Pathologist: Peter C. Mann, D.V.M.

Management: Steven R. Frame, D.V.M., Ph.D.

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Cecilia Rowe Kee, B.S.

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## SUMMARY

The objective of this study was to determine the potential toxicity of H-25435 following repeated dermal exposure. The test substance was applied to the shaved, intact skin of male Crl:CD<sup>®</sup>(SD)IGS BR rats for 6 hours/day for 28 consecutive days. Three groups of 10 male rats were treated dermally with 10, 100, and 1000 mg/kg/day H-25435. A control group of 10 male rats was similarly treated with deionized water. The rats were observed for mortality, clinical signs, dermal effects, and body weight effects during the study. Food consumption was determined weekly during the study. Blood samples for total fluorine were collected on test days -4, 3, 9, and 21. Blood and urine samples were collected for clinical pathology prior to sacrifice on day 29. All rats underwent necropsy for gross and microscopic pathological evaluation.

There were no effects on body weight, food consumption, food efficiency, or mortality at any dosage. No clinical signs attributable to systemic toxicity occurred. No dermal irritation was observed during the study.

Some fluorine was present in the day 21 blood from rats dosed with the test substance, indicating exposure to a fluoride-containing compound. This finding was considered to be treatment-related but not adverse.

Organ weights were not different in a dose response fashion in either incidence or severity. Gross observations and microscopic findings occur spontaneously in rats of this strain and age and were not present in a dose response fashion in either incidence or severity.

There were no adverse changes in hematology parameters. Aspartate and alanine aminotransferase activities were increased along with increased sorbitol dehydrogenase activities in rats treated at 1000 mg/kg/day. These increases were considered to be potentially adverse. Urine fluoride was increased in rats treated at 1000 mg/kg/day, indicating exposure to and metabolism of a fluoride-containing compound. This urine fluoride increase was considered to be treatment-related but not adverse.

Based on the presence of mildly increased liver enzymes at 1000 mg/kg/day, the no-observed effect level (NOEL)<sup>a</sup> for the dermal exposure of H-25435 under the conditions of this study was 100 mg/kg/day for male rats.

<sup>a</sup> The NOEL for this study is defined as the highest dose at which toxicologically important effects attributable to the test substance were not detected. Thus, for this study, the NOEL is equivalent to the NOEL as defined by the U.S. EPA (1985) and to the no-observable-adverse-effect level (NOAEL) as defined by the European Union (1994).

## INTRODUCTION

The purpose of this study was to evaluate the toxicity of H-25435 in rats when administered dermally for 28 days. This study was intended to provide insight to the possible human health hazards associated with repeated dermal exposures to the test substance over a limited period of time.

A range-finding study was conducted to aid in dosage selection for the 28-day dermal study. Groups of 2 male rats received dermal applications of H-25435 at dosages of 10, 60, 500, or 1000 mg/kg for 6 hours for 4 consecutive days. No dermal irritation was observed, and no test substance-related clinical signs or body weight losses occurred. Based on the lack of toxicity observed in the range finding study, dosages of 0, 10, 100, and 1000 mg/kg/day were selected for the 28-day study.

## STUDY DESIGN

| Group | Number/Group | Dosage (mg/kg) |
|-------|--------------|----------------|
| I     | 10           | 0              |
| III   | 10           | 10             |
| V     | 10           | 100            |
| VII   | 10           | 1000           |

## MATERIALS AND METHODS

### A. Test Guidelines

Except as noted below, the study design complies with the following test guidelines:

- Office of Prevention, Pesticides and Toxic Substances (OPPTS) U.S. Environmental Protection Agency (EPA) (1998). OPPTS 870.3200 21/28-Day Dermal Toxicity. *Health Effects Test Guidelines*.
- Organisation for Economic Co-Operation and Development (OECD) (1981). 410 Repeated Dose Dermal Toxicity: 21/28-Day Study. *Guideline for Testing of Chemicals*.

Only male rats were treated. This exception did not affect the objectives or validity of the study because males are the more sensitive sex to the toxicological effects of fluorinated test substances such as H-25435.

## **B. Test Substance**

The test substance, H-25435, was supplied by the sponsor as an amber brown liquid. The test substance appeared to be stable under the conditions of the study. No evidence of instability, such as a change in color or physical state, was observed.

All of the test substance administered was assumed to be available for absorption. For the purposes of this study, all toxic effects were reported as a function of the administered dosage.

## **C. Test Species**

On October 15, 2002, 44 male Crl:CD<sup>®</sup>(SD)IGS BR rats, with an assigned birth date of September 2, 2002, were received from Charles River Laboratories, Inc., Raleigh, North Carolina.

The Crl:CD<sup>®</sup>(SD)IGS BR rat was selected because extensive background information is available from the literature, the supplier, and previous studies conducted at Haskell Laboratory. This strain is also considered suitable relative to hardiness and low incidence of spontaneous disease.

## **D. Animal Husbandry**

### **1. Housing**

Rats were housed singly in stainless steel, wire-mesh cages suspended above cage boards.

### **2. Environmental Conditions**

Animal rooms were maintained at a temperature of 19-25°C and a relative humidity of 30-70%. Animal rooms were artificially illuminated (fluorescent light) on an approximate 12-hour light/dark cycle. Excursions outside of these ranges were of insufficient magnitude and/or duration to have adversely affected the validity of the study.

### **3. Feed and Water**

Tap water was provided *ad libitum*. PMI<sup>®</sup> Nutrition International, LLC Certified Rodent LabDiet<sup>®</sup> 5002 meal was available *ad libitum* except when the rats were fasted.

### **4. Identification**

Prior to assignment to groups, each rat was temporarily identified by a cage card affixed to the outside of its cage. After assignment to groups, each rat was assigned a unique 6-digit Haskell animal number and an individual cage identification number. The last 3 digits of the Haskell animal number were tattooed on the tail of each rat. The information on the cage labels included the Haskell animal number and the individual identification number assigned to each rat.

## 5. Health Monitoring Program

As specified in the Haskell Laboratory animal health and environmental monitoring program, the following procedures are performed periodically to ensure that contaminant levels are below those that would be expected to impact the scientific integrity of the study:

- Water samples are analyzed for total bacterial counts, and the presence of coliforms, lead, and other contaminants.
- Feed samples are analyzed for total bacterial, spore, and fungal counts.
- Samples from freshly washed cages and cage racks are analyzed to ensure adequate sanitation by the cagewashers.

Certified animal feed is used, guaranteed by the manufacturer to meet specified nutritional requirements and not to exceed stated maximum concentrations of key contaminants, including specified heavy metals, aflatoxin, chlorinated hydrocarbons, and organophosphates. The presence of these contaminants below the maximum concentration stated by the manufacturer would not be expected to impact the integrity of the study.

The animal health and environmental monitoring program is administered by the attending laboratory animal veterinarian. Evaluation of these data did not indicate any conditions that affected the validity of the study.

### E. Pretest Period

Upon arrival at Haskell Laboratory, the rats were quarantined for 6 days. The rats were weighed 3 times and examined daily for any clinically apparent signs of disease or injury.

On the bases of acceptable body weight gains and clinical signs, the rats were released from quarantine on test day -8 by the laboratory animal veterinarian's designee.

### F. Assignment to Groups and Study Start

Forty rats were selected for study use on the bases of adequate body weight gain, freedom from clinical signs of disease or injury, and a body weight within  $\pm 20\%$  of the mean. The selected rats were divided by computerized, stratified randomization into 4 groups of 10 rats, so that there were no statistically significant differences among group body weight means.

Dose administration with H-25435 began on test day 0 when the rats were approximately 8 weeks of age.

### G. Test Substance Preparation and Administration

On the day prior to the first treatment, the fur of each rat was closely shaved to expose the skin from the back and trunk. On each day of treatment, the rats wore plastic collars during the

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exposure period to prevent ingestion of the test substance and disruption of the wrappings. The area to be treated was marked on the back of each rat with a water-insoluble marker. The approximate total body surface area covered for the 0, 10, 100, and 1000 mg/kg/day groups was 1.2%, 0.1%, 0.3%, and 1.5%, respectively. The volume of neat test substance or vehicle was not sufficient to cover 10% of the total body surface area. The test substance was applied evenly and as thinly as possible to the test site. The test substance was covered with a 2-ply porous gauze dressing followed by successive layers of stretch gauze (no more than 8 layers) and self-adhesive bandage. Each day of dosing, the control rats received the same volume of deionized water as the high-dose treatment group. The rats were treated at approximately the same time each day.

Groups of 10 male rats were treated at dosages of 0, 10, 100, or 1000 mg of test substance per kg body weight. The rats were treated for 28 consecutive days. The amount of neat test substance needed to treat each rat was based on the most recently determined body weight measurement and the test substance density of 1150 mg/mL.

The exposure period was approximately 6 hours. After the exposure period, the collars and wrappings were removed and the test site was wiped with a wet paper towel and washed with warm tap water. The test site of each rat was then gently patted dry and the rat was returned to its cage. Control animals received the same washing technique as the treated animals.

The animals were reshaved as needed during the study to facilitate the evaluation of dermal effects. The entire area that was originally shaved (including the untreated control skin) was reshaved. The animals were shaved only after an evaluation.

#### **H. Body Weights**

All rats were weighed at 3-4 day intervals during the study.

#### **I. Food Consumption and Food Efficiency**

The amount of food consumed by each rat was determined once per week throughout the study. Individual food consumption was determined by weighing the amount of diet in each feeder at the beginning and end of the week and subtracting the final weight and the amount of spillage from the feeder during the week from the initial weight. From these measurements, mean daily food consumption was determined. From the food consumption and body weight data, mean daily food efficiency was calculated.

#### **J. Mortality and Clinical Observations**

The rats were checked twice daily for mortality and for signs of illness, injury, or abnormal behavior.

The rats were observed for clinical signs of toxicity and dermal effects after removal of the test substance. The Draize Scale was used to score skin irritation. Adjacent areas of untreated skin were used for comparison. The rats were also observed for clinical signs at each weighing.

#### K. Total Fluorine and Perfluorooctanoic Acid Level Evaluations

Blood was collected into EDTA tubes from the orbital sinus of the first 5 rats in each group on test days -4, 3, 9, and 21 approximately one hour after removal of the test substance. The blood was refrigerated. The total fluorine content of the day 21 blood samples was determined by using a Wickbold torch combustion method followed by analysis with a fluoride ion selective electrode. The remaining samples were not analyzed. Fluorine blood analysis was performed at Jackson Laboratory, Deepwater, New Jersey.

Additional blood was collected from the vena cava of all rats at necropsy into a tube containing EDTA. Plasma was prepared and stored frozen at -80°C to -20°C. Concentration of perfluorooctanoic acid (PFOA) will be determined. The results of the analysis will be presented in a supplemental report.

#### L. Clinical Pathology Evaluation

A clinical pathology evaluation was conducted on all rats 29 days after initiation of the study. The day before collection of samples for the clinical pathology evaluation, the animals were placed in metabolism cages. These animals were fasted overnight (approximately 16 hours) and urine was collected from each animal. Blood samples for hematology and clinical chemistry measurements were collected from the orbital sinus of each animal while the animal was under carbon dioxide anesthesia. Blood was collected from the *vena cava* and was placed in a serum tube, processed to serum, and frozen at -80°C. Bone marrow smears were prepared at sacrifice from all surviving animals. Bone marrow smears were stained with Wright's stain, but analysis was not necessary to support experimental findings.

##### 1. Hematology

Blood samples were evaluated for quality by visual examination prior to analysis. Complete blood counts, including reticulocytes, were determined on a Bayer® Advia 120 hematology analyzer or determined from microscopic evaluation of the blood smear. Wright-stained blood smears from all animals were examined microscopically for confirmation of automated results and evaluation of cellular morphology. Blood smears, stained with new methylene blue, were prepared from each animal undergoing a hematology evaluation but were not needed for examination.

The following hematology parameters were determined:

red blood cell count  
hemoglobin  
hematocrit

red cell distribution width  
absolute reticulocyte count  
platelet count

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|                                           |                                     |
|-------------------------------------------|-------------------------------------|
| mean corpuscular volume                   | white blood cell count              |
| mean corpuscular hemoglobin               | differential white blood cell count |
| mean corpuscular hemoglobin concentration | microscopic blood smear examination |

## 2. Clinical Chemistry

Serum clinical chemistry parameters were determined on a Roche Diagnostics (BMC)/Hitachi® 717 clinical chemistry analyzer. Plasma fluoride concentrations were determined using a phi 12 pH meter and a fluoride-selective electrode.

The following clinical chemistry parameters were determined:

|                            |                       |
|----------------------------|-----------------------|
| aspartate aminotransferase | glucose               |
| alanine aminotransferase   | total protein         |
| sorbitol dehydrogenase     | albumin               |
| alkaline phosphatase       | globulin              |
| total bilirubin            | calcium               |
| urea nitrogen              | inorganic phosphorus  |
| creatinine                 | sodium                |
| cholesterol                | potassium             |
| triglycerides              | chloride              |
|                            | fluoride <sup>a</sup> |

## 3. Urinalysis

Urine volume and appearance (quality, color, and clarity) were measured and evaluated visually, respectively. Urine constituents were semi-quantitatively measured on a Bayer Clinitek® Atlas™ Automated Urine Chemistry analyzer. Urine protein was measured on a Roche Diagnostics (BMC)/Hitachi® 717 clinical chemistry analyzer. Urine osmolality was determined using an Advanced Osmometer 3900. Urine fluoride concentrations were determined using a phi 12 pH meter and a fluoride-selective electrode, and total urine fluorides were calculated (volume x concentration). Sediments from all urine specimens were evaluated microscopically.

The following urinalysis parameters were determined:

|            |                                        |
|------------|----------------------------------------|
| quality    | ketone                                 |
| color      | bilirubin                              |
| clarity    | blood                                  |
| volume     | urobilinogen                           |
| osmolality | fluoride <sup>b</sup>                  |
| pH         | protein                                |
| glucose    | microscopic urine sediment examination |

<sup>a</sup> Fluoride determination was analyzed on EDTA plasma.

<sup>b</sup> Fluoride determination was analyzed from urine with EDTA added.

## M. Anatomic Pathology Evaluations

Rats were fasted after 3 p.m. on the afternoon before their scheduled sacrifice. A final sacrifice was performed on the rats following the final clinical pathology evaluation. All rats sacrificed by design underwent a gross and microscopic evaluation. Rats were euthanatized by carbon dioxide anesthesia and exsanguination. The order of sacrifice was random among all treatment groups.

The following tissues were collected from the rats:

gross observations<sup>a</sup>  
liver<sup>b</sup>  
kidneys<sup>b</sup>  
thyroid gland (after fixation)<sup>b</sup>  
skin (treated and untreated)  
teeth

a Gross observations made at necropsy for which histopathology was not appropriate (e.g., fluid, ruffled fur, and missing anatomic parts) was generally not collected.

b Organs weighed

All tissues were placed in an appropriate fixative.

The rats had the following organs weighed: liver, kidneys, and thyroid. Relative organ weights (percent of final body weight) were calculated. Final body weights determined just prior to necropsy were used in the assessment of organ weight changes.

Tissues collected from rats in the high-dose and control group were further processed to slides, stained with hematoxylin and eosin, and examined microscopically. Most gross lesions and any additional target organs from rats in the low- and intermediate-dosage groups were evaluated microscopically. Selected gross observations for which a microscopic diagnosis would not be additive (e.g., osteoarthritis, pododermatitis, chronic tail dermatitis, calculus, and deformities of the teeth, toe, tail, or ear pinna) were saved, but were not processed for microscopic evaluation.

## N. Statistical Analyses

Significance was judged at  $p < 0.05$ .

| Parameter                                                                              | Preliminary Test                                                                                             | Method of Statistical Analysis                                                               |                                                                               |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|                                                                                        |                                                                                                              | If preliminary test is not significant                                                       | If preliminary test is significant                                            |
| Body Weight<br>Body Weight Gain<br>Food Consumption<br>Food Efficiency<br>Organ Weight | Test for lack of trend <sup>(2)</sup>                                                                        | Sequential application <sup>(3)</sup> of the Jonckheere-Terpstra trend test <sup>(4)</sup>   | Preliminary tests for pairwise comparison                                     |
|                                                                                        | OR <sup>a</sup>                                                                                              |                                                                                              |                                                                               |
|                                                                                        | Levene's test for homogeneity <sup>(5)</sup> and Shapiro-Wilk test <sup>(6)</sup> for normality <sup>b</sup> | One-way analysis of variance <sup>(7)</sup> followed with Dunnett's test <sup>(8,9,10)</sup> | Kruskal-Wallis test <sup>(11)</sup> followed with Dunn's test <sup>(12)</sup> |
| Clinical Pathology <sup>d</sup>                                                        | Levene's test for homogeneity <sup>(5)</sup> and Shapiro-Wilk test <sup>(6)</sup> for normality <sup>b</sup> | One-way analysis of variance <sup>(7)</sup> followed with Dunnett's test <sup>(8,9,10)</sup> | Kruskal-Wallis test <sup>(11)</sup> followed with Dunn's test <sup>(12)</sup> |
| Survival<br>Incidence of Clinical Observations<br>Incidence of Dermal Effects          | None                                                                                                         | Cochran-Armitage test for trend <sup>(7)c</sup>                                              |                                                                               |

- Pairwise comparisons and associated preliminary tests were only conducted if the test for lack of trend was significant.
- If the Shapiro-Wilk test was not significant but Levene's test was significant, a robust version of Dunnett's test was used. If the Shapiro-Wilk test was significant, Kruskal-Wallis test was followed by Dunn's test.
- If the incidence was not significant, but a significant lack of fit occurred, then Fisher's Exact test<sup>(13)</sup> with a Bonferroni correction was used.
- When an individual observation was recorded as being less than a certain value, calculations were performed on half the recorded value. For example, if bilirubin was reported as  $<0.1$ , 0.05 was used for any calculations performed with that bilirubin data.

## RESULTS AND DISCUSSION

### In-Life Toxicology

#### A. Mean Body Weights and Body Weight Gains (Tables 2-3, Figure 1, Appendix B)

No effects on body weights or body weight gains occurred in any group of rats dosed with the test substance, H-25435.

#### B. Food Consumption and Food Efficiency (Tables 4-5, Appendix C)

No effects on food consumption or food efficiency occurred in any group of rats dosed with the test substance.

#### C. Clinical Observations, Dermal Evaluations, and Survival (Tables 6-8, Appendices D-F)

No clinical signs resulting in systemic toxicity occurred. Red ocular discharge was observed in all rats during the study. Red nasal discharge and swollen face were observed in rats in all dose groups. These clinical signs are considered to be due to the wrapping/collar application procedure. Superficial wounds and hair loss were present in both treated and control animals and were not considered test substance-related. The observation of dark eye in one rat treated at 100 mg/kg was short in duration, was not observed in any other rats, and therefore is not considered to be test substance-related.

No dermal irritation was observed during the study.

No deaths occurred.

#### D. Blood Fluorine Analysis (Appendix G)

There was some fluorine present in the day 21 blood from rats dosed with the test substance. This indicated exposure to a fluoride-containing compound and is considered to be treatment related but not adverse. Two rats treated at 10 mg/kg/day had fluorine levels below the limit of quantification (LOQ). The remaining 3 rats had levels ranging from 0.52 to 5.96 ppm. The rats treated at 100 mg/kg had levels of fluorine ranging from 0.54 to 0.78 ppm. Two rats treated at

1000 mg/kg/day had fluorine levels below the LOQ. The remaining 3 rats had levels ranging from 1.22 to 1.38 ppm. All values for the control rats were below the LOQ.

#### **E. In-Life Conclusions**

Under the conditions of this study, the no-observed-effect level for inlife parameters was 1000 mg/kg/day for male rats based on the absence of adverse effects.

### **Clinical Pathology Evaluations**

#### **A. Hematology** (Table 9, Appendix H)

There were no adverse changes in hematologic parameters in males. The following statistically significant changes in mean hematologic parameters were considered to be non-adverse or not related to exposure to the test substance:

- Mean red cell parameters (red cell count, hemoglobin, and hematocrit) were similarly decreased in males dosed with 10, 100, or 1000 mg/kg/day (statistically significant for red cell count at 10 mg/kg/day, and for hemoglobin and hematocrit at 100 and 1000 mg/kg/day). There was no dose-relationship to the changes, despite the 100-fold range of doses. There were no correlative changes in other red cell parameters (reticulocytes, indices, or morphology) that would be expected with processes that alter red cell mass. In addition, red cell mass parameters for the three dosed groups were similar to that of the control groups on a recent dermal study.<sup>(14)</sup> It is likely that the apparent decrements in red cell mass were due to higher than usual red cell mass in the control group, rather than a direct effect of the compound. Therefore, these changes were considered to be unrelated to treatment.
- Eosinophils were minimally increased in males dosed with 1000 mg/kg/day (147% of control group mean). Due to the consistency of change, this increase was likely to be due to treatment. There were no other alterations in leukocyte counts, and no correlative histologic changes. In addition, eosinophils counts of all individual rats dosed with 1000 mg/kg/day were within the range of the control group counts. Therefore, although this change was possibly related to treatment, it was considered to be non-adverse.

#### **B. Clinical Chemistry** (Table 10, Appendix H)

Aspartate and alanine aminotransferase activities were minimally (aspartate aminotransferase) to mildly (alanine aminotransferase) increased in some males dosed with 100 or 1000 mg/kg/day. In these groups, mean activities were statistically significant, and were 133-144% of control for aspartate aminotransferase, and 200-222% of control for alanine aminotransferase. In individual

affected rats, generally activities of both enzymes were elevated. Sorbitol dehydrogenase was also increased in affected rats in both groups, although mean activities were not statistically different from the control mean. The presence of increased transaminases and sorbitol dehydrogenase indicates hepatocellular injury. Histologically, there were no alterations in the liver. Due to the magnitude of the change, this effect was considered to be potentially adverse.

There were no other adverse changes in clinical chemistry parameters. The following statistically significant changes in mean clinical chemistry parameters were considered to be non-adverse or not related to exposure to the test substance:

- Alkaline phosphatase was minimally increased in males dosed with 1000 mg/kg/day (mean was 136% of control group mean). This change was possibly related to treatment. However, the magnitude of change was very small. In addition, there were no alterations in correlative clinical or anatomic pathology parameters. Increased alkaline phosphatase activity did not occur in the same rats that had increased transaminase and sorbitol dehydrogenase activities. Therefore, although this change was possibly related to treatment, it was considered to be non-adverse.
- Bilirubin was statistically and minimally increased in males dosed with 1000 mg/kg/day (133% of control group mean). Mean and individual bilirubin concentrations for this group (mean: 0.12 mg/dL, individual values: <0.10 to 0.16 mg/dL) were well within the historical age-matched control range (control mean range: 0.09-0.29 mg/dL; range of individual animals: 0.07-0.33 mg/dL). Based on individual rat data compared to the control and other treated groups, this change was unlikely to be related to treatment. Regardless, the magnitude of change was very small, and non-adverse.
- Cholesterol was minimally increased in males dosed with 10, 100, or 1000 mg/kg/day. Although this change may have been related to treatment, the magnitude of change was very small, and was not expected to result in adverse events. Therefore, this change was considered to be non-adverse.
- Triglycerides were minimally increased in males dosed with 10, 100, or 1000 mg/kg/day (147%, 150%, and 187% of control group means; statistically significant only at 1000 mg/kg/day). Increased triglycerides were likely to be treatment-related. However, the magnitude of change was very small, and was not expected to result in adverse events. Therefore, this change was considered to be non-adverse.

The following statistically significant change in mean clinical chemistry parameters was considered to be non-adverse because it was unrelated to dose:

- Minimally decreased albumin in males dosed with 100 mg/kg/day

### C. Urinalyses (Table 11, Appendix H)

There were no adverse changes in urinalysis parameters. The following statistically significant changes in mean urinalysis parameters were considered to be non-adverse:

- Urine osmolality was mildly decreased (62% of control group means) in males dosed with 1000 mg/kg/day. This was associated with an appropriate tendency (not statistically significant) towards minimally higher urine volumes in this group. There were no alterations in other renal parameters on this study. The presence of decreased osmolality with increased urine volume, in the absence of other changes in renal parameters, has no toxicologic significance. Therefore, this change was considered to be non-adverse.
- Urine protein concentration was decreased in males dosed with 1000 mg/kg/day. Decreases in urine protein concentration were secondary to increased urine volume. In addition, decreases in urine protein have no toxicologic significance. Therefore, this change was considered to be non-adverse.

### D. Urine and Plasma Fluoride

There was no effect of treatment on plasma fluoride concentration.

Urine fluoride (total fluoride excreted overnight) was increased in males dosed with 1000 mg/kg/day (Text Table I). Increased urine fluoride indicates exposure to and metabolism of a fluoride-containing compound.

Text Table I: Mean urine fluoride for males

| Parameter (units) | Dose (mg/kg/day) |      |      |             |
|-------------------|------------------|------|------|-------------|
|                   | 0                | 10   | 100  | 1000        |
| UFLU (µg)         | 14.8             | 17.4 | 19.2 | <b>33.9</b> |
| % of control mean | NA               | 118% | 130% | <b>229%</b> |

Statistical significance is indicated by bold italicized type

### E. Clinical Pathology Conclusions

In conclusion, dermal dosing of male rats with 1000 mg/kg/day resulted in increased aspartate and alanine aminotransferase activities, along with increased sorbitol dehydrogenase activities, in some rats. This change was considered to be potentially adverse. Urine fluoride was increased in males dosed with 1000 mg/kg/day; this change indicated exposure to and metabolism of a fluoride-containing compound, and was considered to be treatment-related but non-adverse.

Therefore, under the conditions of this study and for the clinical pathology parameters measured, the no-observed-effect level was 100 mg/kg/day for male rats, based on the presence of mildly increased liver enzymes at 1000 mg/kg/day.

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## **Anatomic Pathology Evaluations**

### **A. Mortality**

There were no early deaths.

### **B. Organ Weights**

(Table 12, Appendix I)

Organ weights were not different in a dose response fashion in either incidence or severity.

### **C. Gross Observations**

(Table 13, Appendix J)

All gross observations noted are known to occur spontaneously in rats of this strain and age and were not present in a dose response fashion in either incidence or severity.

### **D. Microscopic Findings**

(Table 14, Appendix J)

All microscopic observations noted are known to occur spontaneously in rats of this strain and age and were not present in a dose response fashion in either incidence or severity.

### **E. Anatomic Pathology Conclusions**

Under the conditions of this study, the no-observed-effect level for pathology was 1000 mg/kg/day.

## CONCLUSIONS

No deaths occurred during the study. No adverse test substance-related effects on body weight, food consumption, food efficiency, clinical signs, or dermal irritation were seen in male rats that received 28 applications of H-25435 applied daily to the shaved skin. Organ weight differences, gross observations, and microscopic findings were considered to occur spontaneously in rats and/or were not present in a dose response fashion. There were no adverse changes in hematology or urinalysis parameters.

Dermal administration of H-25435 resulted in increased aspartate and alanine aminotransferase activities along with increased sorbitol dehydrogenase activities at 1000 mg/kg/day.

The no-observed-effect level (NOEL)<sup>a</sup> was 100 mg/kg/day based on the presence of mildly increased liver enzymes at 1000 mg/kg/day.

## RECORDS AND SAMPLE STORAGE

All data and records for analytical characterizations conducted by the sponsor will be retained by the sponsor. Laboratory-specific or site-specific raw data, such as personnel files and equipment records will be retained by the facility where the work was done.

A sample of the test substance will be collected for archive purposes and retained at Haskell Laboratory, Newark, Delaware. Specimens (if applicable), raw data, and the final report will be retained at Haskell Laboratory, Newark, Delaware or at Iron Mountain Records Management, Wilmington, Delaware.

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<sup>a</sup> The NOEL for this study is defined as the highest dose at which toxicologically important effects attributable to the test substance were not detected. Thus, for this study, the NOEL is equivalent to the NOEL as defined by the United States Environmental Protection Agency<sup>(15)</sup> and to the no-observed-adverse-effect level (NOAEL) as defined by the European Union.<sup>(16)</sup>

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**TABLES**

TABLES

EXPLANATORY NOTES

ABBREVIATIONS:

**Summary of Hematology Values**

|      |   |                                           |
|------|---|-------------------------------------------|
| RBC  | - | red blood cell count                      |
| HGB  | - | hemoglobin                                |
| HCT  | - | hematocrit                                |
| MCV  | - | mean corpuscular volume                   |
| MCH  | - | mean corpuscular hemoglobin               |
| MCHC | - | mean corpuscular hemoglobin concentration |
| RDW  | - | red cell distribution width               |
| ARET | - | absolute reticulocyte count               |
| PLT  | - | platelet count                            |
| WBC  | - | white blood cell count                    |
| ANEU | - | absolute neutrophil (all forms)           |
| ALYM | - | absolute lymphocyte                       |
| AMON | - | absolute monocyte                         |
| AEOS | - | absolute eosinophil                       |
| ABAS | - | absolute basophil                         |
| ALUC | - | absolute large unstained cell             |

**Summary of Clinical Chemistry Values**

|      |   |                            |
|------|---|----------------------------|
| AST  | - | aspartate aminotransferase |
| ALT  | - | alanine aminotransferase   |
| SDH  | - | sorbitol dehydrogenase     |
| ALKP | - | alkaline phosphatase       |
| BILI | - | total bilirubin            |
| BUN  | - | urea nitrogen              |
| CREA | - | creatinine                 |
| CHOL | - | cholesterol                |
| TRIG | - | triglycerides              |
| GLUC | - | glucose                    |
| TP   | - | total protein              |
| ALB  | - | albumin                    |
| GLOB | - | globulin                   |
| CALC | - | calcium                    |
| IPHS | - | inorganic phosphorous      |
| NA   | - | sodium                     |
| K    | - | potassium                  |
| CL   | - | chloride                   |
| PFLU | - | plasma fluoride            |

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## TABLES

### EXPLANATORY NOTES (Continued)

#### ABBREVIATIONS: (Continued)

##### **Summary of Urinalysis Values**

- VOL - volume
- UOSM - urine osmolality
- pH - the logarithm of the reciprocal of the hydrogen ion concentration
- URO - urobilinogen
- UFLU - urine fluoride
- UMTP - urine protein

#### NOTES:

##### **Summary of Hematology Values**

##### **Summary of Clinical Chemistry Values**

##### **Summary of Urinalysis Values**

When an individual observation was recorded as being less than a certain value, calculations were performed on half the recorded value. For example, if bilirubin was reported as <0.1, 0.05 was used for any calculations performed with that bilirubin data.

TABLE 1

## MEAN DAILY APPLIED DOSE VOLUMES FOR MALE RATS (μL)

| Group:<br>Dosage (mg/kg) | I<br>0            | III<br>10      | V<br>100        | VII<br>1000       |
|--------------------------|-------------------|----------------|-----------------|-------------------|
| DAY0                     | 242.2<br>16.6(10) | 2.5<br>0.1(10) | 24.4<br>1.0(10) | 247.6<br>10.6(10) |
| DAY1                     | 242.2<br>16.6(10) | 2.5<br>0.1(10) | 24.4<br>1.0(10) | 247.6<br>10.6(10) |
| DAY2                     | 242.2<br>16.6(10) | 2.5<br>0.1(10) | 24.4<br>1.0(10) | 247.6<br>10.6(10) |
| DAY3                     | 256.1<br>19.9(10) | 2.6<br>0.1(10) | 25.7<br>1.0(10) | 260.3<br>13.2(10) |
| DAY4                     | 256.1<br>19.9(10) | 2.6<br>0.1(10) | 25.7<br>1.0(10) | 260.3<br>13.2(10) |
| DAY5                     | 256.1<br>19.9(10) | 2.6<br>0.1(10) | 25.7<br>1.0(10) | 260.3<br>13.2(10) |
| DAY6                     | 256.1<br>19.9(10) | 2.6<br>0.1(10) | 25.7<br>1.0(10) | 260.3<br>13.2(10) |
| DAY7                     | 267.5<br>22.4(10) | 2.7<br>0.2(10) | 26.5<br>1.0(10) | 270.5<br>14.1(10) |
| DAY8                     | 267.5<br>22.4(10) | 2.7<br>0.2(10) | 26.5<br>1.0(10) | 270.5<br>14.1(10) |
| DAY9                     | 267.5<br>22.4(10) | 2.7<br>0.2(10) | 26.5<br>1.0(10) | 270.5<br>14.1(10) |
| DAY10                    | 280.9<br>23.8(10) | 2.9<br>0.2(10) | 27.4<br>1.1(10) | 283.2<br>14.8(10) |

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TABLE 1 (CONTINUED)  
MEAN DAILY APPLIED DOSE VOLUMES FOR MALE RATS (μL)

| Group:<br>Dosage (mg/kg) | I<br>0             | III<br>10       | V<br>100         | VII<br>1000        |
|--------------------------|--------------------|-----------------|------------------|--------------------|
| DAY11                    | 280.9<br>23.8 (10) | 2.9<br>0.2 (10) | 27.4<br>1.1 (10) | 283.2<br>14.8 (10) |
| DAY12                    | 280.9<br>23.8 (10) | 2.9<br>0.2 (10) | 27.4<br>1.1 (10) | 283.2<br>14.8 (10) |
| DAY13                    | 280.9<br>23.8 (10) | 2.9<br>0.2 (10) | 27.4<br>1.1 (10) | 283.2<br>14.8 (10) |
| DAY14                    | 290.8<br>23.6 (10) | 3.0<br>0.2 (10) | 28.1<br>1.3 (10) | 293.4<br>15.2 (10) |
| DAY15                    | 290.8<br>23.6 (10) | 3.0<br>0.2 (10) | 28.1<br>1.3 (10) | 293.4<br>15.2 (10) |
| DAY16                    | 290.8<br>23.6 (10) | 3.0<br>0.2 (10) | 28.1<br>1.3 (10) | 293.4<br>15.2 (10) |
| DAY17                    | 300.5<br>24.8 (10) | 3.1<br>0.2 (10) | 29.0<br>1.4 (10) | 302.1<br>18.9 (10) |
| DAY18                    | 300.5<br>24.8 (10) | 3.1<br>0.2 (10) | 29.0<br>1.4 (10) | 302.1<br>18.9 (10) |
| DAY19                    | 300.5<br>24.8 (10) | 3.1<br>0.2 (10) | 29.0<br>1.4 (10) | 302.1<br>18.9 (10) |
| DAY20                    | 300.5<br>24.8 (10) | 3.1<br>0.2 (10) | 29.0<br>1.4 (10) | 302.1<br>18.9 (10) |
| DAY21                    | 309.2<br>23.1 (10) | 3.2<br>0.2 (10) | 30.0<br>1.4 (10) | 314.1<br>20.3 (10) |

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TABLE 1 (CONTINUED)  
MEAN DAILY APPLIED DOSE VOLUMES FOR MALE RATS (μL)

| Group:<br>Dosage (mg/kg) | I<br>0             | III<br>10       | V<br>100         | VII<br>1000        |
|--------------------------|--------------------|-----------------|------------------|--------------------|
| DAY22                    | 309.2<br>23.1 (10) | 3.2<br>0.2 (10) | 30.0<br>1.4 (10) | 314.1<br>20.3 (10) |
| DAY23                    | 309.2<br>23.1 (10) | 3.2<br>0.2 (10) | 30.0<br>1.4 (10) | 314.1<br>20.3 (10) |
| DAY24                    | 313.1<br>26.4 (10) | 3.3<br>0.2 (10) | 30.7<br>1.6 (10) | 321.3<br>21.5 (10) |
| DAY25                    | 313.1<br>26.4 (10) | 3.3<br>0.2 (10) | 30.7<br>1.6 (10) | 321.3<br>21.5 (10) |
| DAY26                    | 313.1<br>26.4 (10) | 3.3<br>0.2 (10) | 30.7<br>1.6 (10) | 321.3<br>21.5 (10) |
| DAY27                    | 313.1<br>26.4 (10) | 3.3<br>0.2 (10) | 30.7<br>1.6 (10) | 321.3<br>21.5 (10) |
| DAY28                    | 320.4<br>26.2 (10) | 3.3<br>0.3 (10) | 31.4<br>1.8 (10) | 331.4<br>20.7 (10) |

Data summarized as: Mean  
Standard Deviation (n)

TABLE 2  
MEAN BODY WEIGHTS OF MALE RATS (g)

| Group:<br>Dosage (mg/kg) | I<br>0             | III<br>10          | V<br>100           | VII<br>1000        |
|--------------------------|--------------------|--------------------|--------------------|--------------------|
| DAY0                     | 278.6<br>19.1 (10) | 283.3<br>15.4 (10) | 280.4<br>11.0 (10) | 284.7<br>12.2 (10) |
| DAY3                     | 294.5<br>22.9 (10) | 297.6<br>17.0 (10) | 295.1<br>11.3 (10) | 299.4<br>15.2 (10) |
| DAY7                     | 307.7<br>25.8 (10) | 313.3<br>19.8 (10) | 304.6<br>11.7 (10) | 311.1<br>16.2 (10) |
| DAY10                    | 323.0<br>27.3 (10) | 331.3<br>20.6 (10) | 315.4<br>13.2 (10) | 325.7<br>17.0 (10) |
| DAY14                    | 334.4<br>27.1 (10) | 345.5<br>22.9 (10) | 323.6<br>15.4 (10) | 337.4<br>17.4 (10) |
| DAY17                    | 345.6<br>28.6 (10) | 356.8<br>25.5 (10) | 333.1<br>16.4 (10) | 347.4<br>21.7 (10) |
| DAY21                    | 355.6<br>26.6 (10) | 370.6<br>28.4 (10) | 345.1<br>16.3 (10) | 361.2<br>23.3 (10) |
| DAY24                    | 360.1<br>30.4 (10) | 378.4<br>28.1 (10) | 352.8<br>18.3 (10) | 369.5<br>24.8 (10) |
| DAY28                    | 368.4<br>30.1 (10) | 384.8<br>30.3 (10) | 360.7<br>20.3 (10) | 381.1<br>23.8 (10) |

Data summarized as: Mean  
Standard Deviation (n)

There were no statistically significant differences at  $p < 0.05$  by Jonckheere-Terpstra trend test.

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TABLE 3  
MEAN BODY WEIGHT GAINS OF MALE RATS (g)

| Group:<br>Dosage (mg/kg) | I<br>0            | III<br>10          | V<br>100          | VII<br>1000       |
|--------------------------|-------------------|--------------------|-------------------|-------------------|
| DAY0-DAY3                | 15.9<br>7.2 (10)  | 14.3<br>5.6 (10)   | 14.6<br>6.5 (10)  | 14.7<br>9.0 (10)  |
| DAY3-DAY7                | 13.2<br>5.2 (10)  | 15.8<br>5.5 (10)   | 9.6<br>5.4 (10)   | 11.7<br>4.5 (10)  |
| DAY7-DAY10               | 15.3<br>4.2 (10)  | 17.9<br>5.9 (10)   | 10.7<br>6.1 (10)  | 14.6<br>4.7 (10)  |
| DAY10-DAY14              | 11.4<br>5.8 (10)  | 14.3<br>4.9 (10)   | 8.3<br>4.4 (10)   | 11.7<br>7.0 (10)  |
| DAY14-DAY17              | 11.2<br>5.5 (10)  | 11.2<br>3.7 (10)   | 9.5<br>6.6 (10)   | 10.0<br>9.9 (10)  |
| DAY17-DAY21              | 10.0<br>7.1 (10)  | 13.9<br>5.8 (10)   | 12.0<br>6.9 (10)  | 13.8<br>6.6 (10)  |
| DAY21-DAY24              | 4.5<br>6.5 (10)   | 7.8<br>5.2 (10)    | 7.6<br>7.6 (10)   | 8.3<br>7.3 (10)   |
| DAY24-DAY28              | 8.3<br>7.5 (10)   | 6.5<br>9.4 (10)    | 7.9<br>9.6 (10)   | 11.6<br>6.7 (10)  |
| DAY0-DAY 28              | 89.9<br>15.5 (10) | 101.6<br>23.1 (10) | 80.3<br>17.5 (10) | 96.5<br>21.1 (10) |

Data summarized as: Mean  
Standard Deviation (n)There were no statistically significant differences at  $p < 0.05$  by Jonckheere-Terpstra trend test.

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TABLE 4

MEAN DAILY FOOD CONSUMPTION BY MALE RATS (g/day)

| Group:<br>Dosage (mg/kg) | I<br>0           | III<br>10        | V<br>100         | VII<br>1000      |
|--------------------------|------------------|------------------|------------------|------------------|
| DAY0-DAY7                | 26.7<br>2.1 (10) | 26.2<br>1.6 (10) | 25.6<br>1.6 (10) | 26.1<br>2.1 (10) |
| DAY7-DAY14               | 26.6<br>1.7 (10) | 26.9<br>1.8 (10) | 25.6<br>1.1 (10) | 27.1<br>1.6 (10) |
| DAY14-DAY21              | 26.4<br>1.4 (10) | 26.9<br>1.6 (10) | 26.1<br>1.0 (10) | 27.2<br>1.9 (10) |
| DAY21-DAY28              | 27.3<br>0.9 (10) | 27.5<br>1.3 (10) | 27.2<br>1.3 (10) | 27.5<br>1.1 (10) |
| DAY0-DAY28               | 26.7<br>1.3 (10) | 26.9<br>1.3 (10) | 26.1<br>0.9 (10) | 27.0<br>1.5 (10) |

Data summarized as: Mean  
Standard Deviation (n)

There were no statistically significant differences at  $p < 0.05$  by Jonckheere-Terpstra trend test.

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TABLE 5  
MEAN DAILY FOOD EFFICIENCY OF MALE RATS  
(g body weight gain/g food consumed)

| Group:<br>Dosage (mg/kg) | I<br>0              | III<br>10           | V<br>100            | VII<br>1000         |
|--------------------------|---------------------|---------------------|---------------------|---------------------|
| DAY0-DAY7                | 0.152<br>0.055 (10) | 0.163<br>0.034 (10) | 0.135<br>0.034 (10) | 0.141<br>0.050 (10) |
| DAY7-DAY14               | 0.143<br>0.027 (10) | 0.169<br>0.041 (10) | 0.106<br>0.056 (10) | 0.139<br>0.039 (10) |
| DAY14-DAY21              | 0.115<br>0.040 (10) | 0.132<br>0.034 (10) | 0.117<br>0.047 (10) | 0.123<br>0.053 (10) |
| DAY21-DAY28              | 0.067<br>0.039 (10) | 0.073<br>0.064 (10) | 0.081<br>0.048 (10) | 0.103<br>0.036 (10) |
| DAY0-DAY28               | 0.120<br>0.017 (10) | 0.134<br>0.027 (10) | 0.109<br>0.022 (10) | 0.127<br>0.023 (10) |

Data summarized as: Mean  
Standard Deviation (n)There were no statistically significant differences at  $p < 0.05$  by Jonckheere-Terpstra trend test.

TABLE 6  
SUMMARY OF CLINICAL OBSERVATIONS IN MALE RATS

| Group             | I        | III      | V        | VII      |
|-------------------|----------|----------|----------|----------|
| Dosage (mg/kg)    | 0        | 10       | 100      | 1000     |
| Animal Count      | 10       | 10       | 10       | 10       |
| Discharge         |          |          |          |          |
| Eye right         |          |          |          |          |
| Incidence         | 0        | 0        | 0        | 1 ( 10%) |
| Mean onset (Days) |          |          |          | 29       |
| Nose              |          |          |          |          |
| Incidence         | 0        | 2 ( 20%) | 0        | 0        |
| Mean onset (Days) |          | 3        |          |          |
| Hair Loss         |          |          |          |          |
| Incidence         | 1 ( 10%) | 1 ( 10%) | 1 ( 10%) | 2 ( 20%) |
| Mean onset (Days) | 21       | 28       | 22       | 9        |
| Wound             |          |          |          |          |
| Superficial       |          |          |          |          |
| Incidence         | 2 ( 20%) | 1 ( 10%) | 1 ( 10%) | 2 ( 20%) |
| Mean onset (Days) | 19       | 18       | 18       | 9        |

Incidence - The number of animals for which an observation was recorded.

Mean onset (Days) - The mean of the first test day an observation was recorded for that group.

There were no statistically significant differences at  $p < 0.05$  by Cochran-Armitage trend test.

TABLE 7  
SUMMARY OF CLINICAL OBSERVATIONS - POST DOSING IN MALE RATS

| Group<br>Dosage (mg/kg)<br>Animal Count | I<br>0<br>10 | III<br>10<br>10 | V<br>100<br>10 | VII<br>1000<br>10 |
|-----------------------------------------|--------------|-----------------|----------------|-------------------|
| Eye Observations<br>Dark                |              |                 |                |                   |
| Incidence                               | 0            | 0               | 1 ( 10%)       | 0 ( 0%)           |
| Mean onset (Days)                       |              |                 | 4              |                   |
| Discharge<br>Eye                        |              |                 |                |                   |
| Incidence                               | 10 (100%)    | 10 (100%)       | 10 (100%)      | 10 (100%)         |
| Mean onset (Days)                       | 5            | 5               | 7              | 8                 |
| Nose                                    |              |                 |                |                   |
| Incidence                               | 1 ( 10%)     | 2 ( 20%)        | 1 ( 10%)       | 1 ( 10%)          |
| Mean onset (Days)                       | 3            | 2               | 3              | 6                 |
| Hair Loss                               |              |                 |                |                   |
| Incidence                               | 1 ( 10%)     | 1 ( 10%)        | 1 ( 10%)       | 2 ( 20%)          |
| Mean onset (Days)                       | 21           | 27              | 13             | 9                 |
| Wound<br>Superficial                    |              |                 |                |                   |
| Incidence                               | 2 ( 20%)     | 1 ( 10%)        | 1 ( 10%)       | 2 ( 20%)          |
| Mean onset (Days)                       | 19           | 15              | 17             | 10                |

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TABLE 7 (CONTINUED)  
SUMMARY OF CLINICAL OBSERVATIONS - POST DOSING IN MALE RATS

| Group                        | I        | III      | V        | VII      |
|------------------------------|----------|----------|----------|----------|
| Dosage (mg/kg)               | 0        | 10       | 100      | 1000     |
| Animal Count                 | 10       | 10       | 10       | 10       |
| Swollen Observations<br>Face |          |          |          |          |
| Incidence                    | 4 ( 40%) | 1 ( 10%) | 2 ( 20%) | 2 ( 20%) |
| Mean onset (Days)            | 1        | 14       | 2        | 0        |

Incidence - The number of animals for which an observation was recorded.  
Mean onset (Days) - The mean of the first test day an observation was recorded for that group.  
There were no statistically significant differences at  $p < 0.05$  by Cochran-Armitage trend test.

TABLE 8

PERCENT SURVIVAL OF MALE RATS

| Group:<br>Dosage (mg/kg) | I<br>0 | III<br>10 | V<br>100 | VII<br>1000 |
|--------------------------|--------|-----------|----------|-------------|
| <u>Days on Test</u>      |        |           |          |             |
| 0                        | 100    | 100       | 100      | 100         |
| 7                        | 100    | 100       | 100      | 100         |
| 14                       | 100    | 100       | 100      | 100         |
| 21                       | 100    | 100       | 100      | 100         |
| 28                       | 100    | 100       | 100      | 100         |
| Number at study start    | 10     | 10        | 10       | 10          |
| Alive on test day 28     | 10     | 10        | 10       | 10          |

Percent Survival = (Number of rats alive/Number of rats at risk)\*100

Number of rats at risk = Number at study start.

There were no statistically significant decreases in survival.

TABLE 9  
SUMMARY OF HEMATOLOGY VALUES FOR MALE RATS

|                                    | Group I<br>0 mg/kg | Group III<br>10 mg/kg         | Group V<br>100 mg/kg          | Group VII<br>1000 mg/kg |
|------------------------------------|--------------------|-------------------------------|-------------------------------|-------------------------|
| RBC ( $\times 10^6/\mu\text{L}$ )  |                    |                               |                               |                         |
| DAY 29                             | 8.32<br>0.34(10)   | 7.95 <sup>a</sup><br>0.36(10) | 7.95 <sup>a</sup><br>0.36(10) | 8.01<br>0.27(10)        |
| HGB (g/dL)                         |                    |                               |                               |                         |
| DAY 29                             | 16.3<br>0.6(10)    | 15.9<br>0.6(10)               | 15.6*<br>0.6(10)              | 15.6*<br>0.3(10)        |
| HCT (%)                            |                    |                               |                               |                         |
| DAY 29                             | 48.2<br>1.8(10)    | 46.6<br>1.1(10)               | 46.0*<br>1.8(10)              | 45.8*<br>0.9(10)        |
| MCV (fl)                           |                    |                               |                               |                         |
| DAY 29                             | 58.0<br>1.8(10)    | 58.7<br>1.8(10)               | 57.8<br>1.4(10)               | 57.1<br>1.8(10)         |
| MCH (pg)                           |                    |                               |                               |                         |
| DAY 29                             | 19.6<br>0.5(10)    | 20.0<br>0.6(10)               | 19.6<br>0.6(10)               | 19.4<br>0.5(10)         |
| MCHC (g/dL)                        |                    |                               |                               |                         |
| DAY 29                             | 33.8<br>0.3(10)    | 34.0<br>0.6(10)               | 34.0<br>0.6(10)               | 34.0<br>0.4(10)         |
| RDW (%)                            |                    |                               |                               |                         |
| DAY 29                             | 11.0<br>0.5(10)    | 11.1<br>0.4(10)               | 10.9<br>0.3(10)               | 11.1<br>0.5(10)         |
| ARET ( $\times 10^3/\mu\text{L}$ ) |                    |                               |                               |                         |
| DAY 29                             | 177.4<br>49.9(10)  | 190.5<br>42.2(10)             | 172.6<br>54.5(10)             | 185.1<br>35.5(10)       |
| PLT ( $\times 10^3/\mu\text{L}$ )  |                    |                               |                               |                         |
| DAY 29                             | 1186<br>115(9)     | 1277<br>125(8)                | 1326<br>157(10)               | 1265<br>175(8)          |
| WBC ( $\times 10^3/\mu\text{L}$ )  |                    |                               |                               |                         |
| DAY 29                             | 12.05<br>3.27(10)  | 12.17<br>3.04(10)             | 12.85<br>2.15(10)             | 14.66<br>2.42(10)       |
| ANEU ( $\times 10^3/\mu\text{L}$ ) |                    |                               |                               |                         |
| DAY 29                             | 1.70<br>0.91(10)   | 1.59<br>0.57(10)              | 1.37<br>0.21(10)              | 2.00<br>0.72(10)        |
| ALYM ( $\times 10^3/\mu\text{L}$ ) |                    |                               |                               |                         |
| DAY 29                             | 9.61<br>2.32(10)   | 9.85<br>2.77(10)              | 10.72<br>2.14(10)             | 11.69<br>1.82(10)       |

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TABLE 9 (Continued)

SUMMARY OF HEMATOLOGY VALUES FOR MALE RATS

|                                    | Group I<br>0 mg/kg | Group III<br>10 mg/kg | Group V<br>100 mg/kg | Group VII<br>1000 mg/kg |
|------------------------------------|--------------------|-----------------------|----------------------|-------------------------|
| AMON ( $\times 10^3/\mu\text{L}$ ) |                    |                       |                      |                         |
| DAY 29                             | 0.31<br>0.12(10)   | 0.27<br>0.06(10)      | 0.31<br>0.07(10)     | 0.41<br>0.13(10)        |
| AEOS ( $\times 10^3/\mu\text{L}$ ) |                    |                       |                      |                         |
| DAY 29                             | 0.17<br>0.07(10)   | 0.21<br>0.09(10)      | 0.19<br>0.06(10)     | 0.25@<br>0.05(10)       |
| ABAS ( $\times 10^3/\mu\text{L}$ ) |                    |                       |                      |                         |
| DAY 29                             | 0.12<br>0.04(10)   | 0.11<br>0.03(10)      | 0.09<br>0.04(10)     | 0.14<br>0.06(10)        |
| ALUC ( $\times 10^3/\mu\text{L}$ ) |                    |                       |                      |                         |
| DAY 29                             | 0.14<br>0.06(10)   | 0.14<br>0.08(10)      | 0.17<br>0.06(10)     | 0.17<br>0.08(10)        |

Data arranged as: Mean  
Standard deviation (Number of values included in calculation)

a Groups with identical values may vary in statistical significance, because tabulated statistics are rounded to fewer decimal places than the values used for statistical determination.

\* Statistically significant difference from control at  $p < 0.05$  by Dunnett/Tamhane-Dunnett test.

@ Statistically significant difference from control at  $p < 0.05$  by Dunn's test.

TABLE 10  
SUMMARY OF CLINICAL CHEMISTRY VALUES FOR MALE RATS

|              | Group I<br>0 mg/kg | Group III<br>10 mg/kg | Group V<br>100 mg/kg | Group VII<br>1000 mg/kg |
|--------------|--------------------|-----------------------|----------------------|-------------------------|
| AST (U/L)    |                    |                       |                      |                         |
| DAY 29       | 109<br>14(10)      | 112<br>8(10)          | 145@<br>41(10)       | 157@<br>79(10)          |
| ALT (U/L)    |                    |                       |                      |                         |
| DAY 29       | 50<br>8(10)        | 60<br>15(10)          | 100@<br>37(10)       | 111@<br>66(10)          |
| SDH (U/L)    |                    |                       |                      |                         |
| DAY 29       | 12.8<br>2.9(10)    | 13.5<br>3.8(10)       | 20.6<br>10.5(10)     | 13.9<br>5.0(10)         |
| ALKP (U/L)   |                    |                       |                      |                         |
| DAY 29       | 201<br>37(10)      | 214<br>37(10)         | 225<br>46(10)        | 274*<br>52(10)          |
| BILI (mg/dL) |                    |                       |                      |                         |
| DAY 29       | 0.09<br>0.03(10)   | 0.12<br>0.02(10)      | 0.12<br>0.01(10)     | 0.12@<br>0.04(10)       |
| BUN (mg/dL)  |                    |                       |                      |                         |
| DAY 29       | 15<br>2(10)        | 15<br>2(10)           | 15<br>2(10)          | 15<br>2(10)             |
| CREA (mg/dL) |                    |                       |                      |                         |
| DAY 29       | 0.38<br>0.04(10)   | 0.39<br>0.03(10)      | 0.42<br>0.05(10)     | 0.41<br>0.04(10)        |
| CHOL (mg/dL) |                    |                       |                      |                         |
| DAY 29       | 43<br>6(10)        | 51*<br>5(10)          | 51*<br>7(10)         | 57*<br>6(10)            |
| TRIG (mg/dL) |                    |                       |                      |                         |
| DAY 29       | 30<br>10(10)       | 44<br>15(10)          | 45<br>15(10)         | 56@<br>19(10)           |
| GLUC (mg/dL) |                    |                       |                      |                         |
| DAY 29       | 91<br>8(10)        | 97<br>13(10)          | 97<br>9(10)          | 101<br>10(10)           |
| TP (g/dL)    |                    |                       |                      |                         |
| DAY 29       | 6.7<br>0.2(10)     | 6.7<br>0.3(10)        | 6.5<br>0.2(10)       | 6.7<br>0.2(10)          |
| ALB (g/dL)   |                    |                       |                      |                         |
| DAY 29       | 4.3<br>0.2(10)     | 4.2<br>0.1(10)        | 4.1*<br>0.2(10)      | 4.1<br>0.1(10)          |

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TABLE 10 (Continued)

SUMMARY OF CLINICAL CHEMISTRY VALUES FOR MALE RATS

|              | Group I<br>0 mg/kg | Group III<br>10 mg/kg | Group V<br>100 mg/kg | Group VII<br>1000 mg/kg |
|--------------|--------------------|-----------------------|----------------------|-------------------------|
| GLOB (g/dL)  |                    |                       |                      |                         |
| DAY 29       | 2.4<br>0.2(10)     | 2.5<br>0.3(10)        | 2.4<br>0.1(10)       | 2.5<br>0.1(10)          |
| CALC (mg/dL) |                    |                       |                      |                         |
| DAY 29       | 10.8<br>0.4(10)    | 10.8<br>0.4(10)       | 10.5<br>0.3(10)      | 10.5<br>0.2(10)         |
| IPHS (mg/dL) |                    |                       |                      |                         |
| DAY 29       | 8.1<br>0.5(10)     | 8.0<br>0.5(10)        | 7.9<br>0.5(10)       | 8.0<br>0.4(10)          |
| NA (mmol/L)  |                    |                       |                      |                         |
| DAY 29       | 150.0<br>1.5(10)   | 149.8<br>1.6(10)      | 149.7<br>1.2(10)     | 149.0<br>1.4(10)        |
| K (mmol/L)   |                    |                       |                      |                         |
| DAY 29       | 6.19<br>0.22(10)   | 6.05<br>0.40(10)      | 6.22<br>0.39(10)     | 5.99<br>0.32(10)        |
| CL (mmol/L)  |                    |                       |                      |                         |
| DAY 29       | 102.4<br>1.6(10)   | 102.5<br>1.9(10)      | 103.9<br>1.5(10)     | 102.5<br>1.4(10)        |
| PFLU (µg/mL) |                    |                       |                      |                         |
| DAY 29       | 0.1<br>0.0(10)     | 0.1<br>0.0(10)        | 0.1<br>0.0(10)       | 0.1<br>0.0(10)          |

Data arranged as: Mean  
Standard deviation (Number of values included in calculation)

- \* Statistically significant difference from control at  $p < 0.05$  by Dunnett/Tamhane-Dunnett test.  
@ Statistically significant difference from control at  $p < 0.05$  by Dunn's test.

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TABLE 11  
SUMMARY OF URINALYSIS VALUES FOR MALE RATS

|              | Group I<br>0 mg/kg | Group III<br>10 mg/kg | Group V<br>100 mg/kg | Group VII<br>1000 mg/kg |
|--------------|--------------------|-----------------------|----------------------|-------------------------|
| VOL (mL)     |                    |                       |                      |                         |
| DAY 29       | 8.6<br>7.6(10)     | 10.2<br>6.3(10)       | 7.7<br>3.9(10)       | 10.8<br>3.3(10)         |
| UOSM (mOsm)  |                    |                       |                      |                         |
| DAY 29       | 1551<br>903(10)    | 1235<br>511(10)       | 1283<br>328(10)      | 962@<br>284(10)         |
| pH           |                    |                       |                      |                         |
| DAY 29       | 6.8<br>0.3(10)     | 6.9<br>0.6(10)        | 7.2<br>0.7(9)        | 6.8<br>0.5(10)          |
| URO (EU/dL)  |                    |                       |                      |                         |
| DAY 29       | 0.3<br>0.3(10)     | 0.2<br>0.0(10)        | 0.2<br>0.0(9)        | 0.2<br>0.0(10)          |
| UFLU (µg)    |                    |                       |                      |                         |
| DAY 29       | 14.8<br>4.0(9)     | 17.4<br>4.3(10)       | 19.2<br>5.3(10)      | 33.9@<br>12.1(10)       |
| UMTP (mg/dL) |                    |                       |                      |                         |
| DAY 29       | 111<br>67(10)      | 60<br>28(10)          | 61<br>38(10)         | 34*<br>11(10)           |

Data arranged as: Mean  
Standard deviation (Number of values included in calculation)

\* Statistically significant difference from control at  $p < 0.05$  by Dunnett/Tamhane-Dunnett test.

@ Statistically significant difference from control at  $p < 0.05$  by Dunn's test.

Company Sanitized. Does not contain TSCA CBI

TABLE 12  
MEAN FINAL BODY AND ORGAN WEIGHTS FROM MALE RATS

| Group:<br>Dosage (mg/kg)           | MEAN FINAL BODY AND ABSOLUTE ORGAN WEIGHTS (GRAMS) |                        |                        |                        |  |
|------------------------------------|----------------------------------------------------|------------------------|------------------------|------------------------|--|
|                                    | I<br>0                                             | III<br>10              | V<br>100               | VII<br>1000            |  |
| LIVER                              | 10.794<br>1.266 (10)                               | 11.105<br>1.372 (10)   | 10.252<br>1.004 (10)   | 11.574<br>1.223 (10)   |  |
| KIDNEYS                            | 3.014<br>0.413 (10)                                | 3.137<br>0.330 (10)    | 2.915<br>0.302 (10)    | 3.105<br>0.316 (10)    |  |
| THYROID GLAND                      | 0.017<br>0.003 (9)                                 | 0.020<br>0.004 (10)    | 0.017<br>0.002 (10)    | 0.018<br>0.002 (10)    |  |
| FINAL BODY WEIGHT                  | 347.622<br>24.048 (9)                              | 367.770<br>33.563 (10) | 342.030<br>20.450 (10) | 357.880<br>24.679 (10) |  |
|                                    | MEAN RELATIVE ORGAN WEIGHTS (% OF BODY WEIGHT)     |                        |                        |                        |  |
| LIVER/<br>FINAL BODY * 100         | 3.081<br>0.277 (9)                                 | 3.016<br>0.192 (10)    | 2.992<br>0.158 (10)    | 3.234<br>0.254 (10)    |  |
| KIDNEYS/<br>FINAL BODY * 100       | 0.865<br>0.078 (9)                                 | 0.853<br>0.043 (10)    | 0.851<br>0.062 (10)    | 0.869<br>0.078 (10)    |  |
| THYROID GLAND/<br>FINAL BODY * 100 | 0.005<br>0.001 (8)                                 | 0.005<br>0.001 (10)    | 0.005<br>0.001 (10)    | 0.005<br>0.001 (10)    |  |

Data summarized as: Mean  
Standard Deviation (n); n < 10 reflects weighing error.  
There were no statistically significant differences at  $p < 0.05$  by Jonckheere-Terpstra trend test.

TABLE 13  
INCIDENCES OF GROSS OBSERVATIONS IN MALE RATS

| LESIONS                 | LESION INCIDENCE (Numeric) |                 |                    |                   |                      |  |  |
|-------------------------|----------------------------|-----------------|--------------------|-------------------|----------------------|--|--|
|                         | TREATMENT                  | 0<br>mg/kg<br>I | 10<br>mg/kg<br>III | 100<br>mg/kg<br>V | 1000<br>mg/kg<br>VII |  |  |
| LIVER                   |                            |                 |                    |                   |                      |  |  |
| NO ABNORMALITY DETECTED |                            | (10)<br>10      | (10)<br>10         | (10)<br>10        | (10)<br>10           |  |  |
| KIDNEYS                 |                            |                 |                    |                   |                      |  |  |
| NO ABNORMALITY DETECTED |                            | (10)<br>10      | (10)<br>10         | (10)<br>9         | (10)<br>10           |  |  |
| DILATATION, UNILATERAL. |                            |                 |                    | 1                 |                      |  |  |
| THYROID GLAND           |                            |                 |                    |                   |                      |  |  |
| NO ABNORMALITY DETECTED |                            | (10)<br>10      | (10)<br>10         | (10)<br>10        | (10)<br>10           |  |  |
| SKIN                    |                            |                 |                    |                   |                      |  |  |
| NO ABNORMALITY DETECTED |                            | (10)<br>10      | (10)<br>10         | (10)<br>10        | (10)<br>10           |  |  |
| TESTES                  |                            |                 |                    |                   |                      |  |  |
| LARGE, BILATERAL.       |                            |                 |                    | (1)<br>1          |                      |  |  |
| TEETH                   |                            |                 |                    |                   |                      |  |  |
| NO ABNORMALITY DETECTED |                            | (10)<br>10      | (10)<br>10         | (10)<br>10        | (10)<br>10           |  |  |

Figures in parentheses is the number of animals grossly examined for this tissue  
The absence of a number indicates the finding specified was not identified

TABLE 14

INCIDENCES AND LESION GRADES OF MICROSCOPIC OBSERVATIONS IN MALE RATS

| LESIONS                                                                            | LESION INCIDENCE (NUMERIC) |                 |                    |                   |                      |
|------------------------------------------------------------------------------------|----------------------------|-----------------|--------------------|-------------------|----------------------|
|                                                                                    | TREATMENT                  | 0<br>mg/kg<br>I | 10<br>mg/kg<br>III | 100<br>mg/kg<br>V | 1000<br>mg/kg<br>VII |
| DIGESTIVE SYSTEM                                                                   |                            |                 |                    |                   |                      |
| LIVER                                                                              |                            | (10)            |                    |                   | (10)                 |
| NECROSIS, HEPATOCELLULAR, FOCAL.<br>minimal<br>total observations per lesion       |                            |                 |                    |                   | 1<br>1               |
| MACROPHAGES, PIGMENTED, FOCAL.<br>minimal<br>total observations per lesion         |                            | 1<br>1          |                    |                   |                      |
| INFLAMMATION, SUBACUTE/CHRONIC, FOCAL.<br>minimal<br>total observations per lesion |                            | 5<br>5          |                    |                   | 8<br>8               |
| HEMATOPOIESIS, EXTRAMEDULLARY.<br>minimal<br>total observations per lesion         |                            | 10<br>10        |                    |                   | 10<br>10             |

Figure in parentheses is number of animals microscopically examined for this tissue  
The absence of a number indicates the lesion specified was not identified

TABLE 14 (CONTINUED)

INCIDENCES AND LESION GRADES OF MICROSCOPIC OBSERVATIONS IN MALE RATS

| LESIONS                                         | LESION INCIDENCE (NUMERIC) |                 |                    |                   |                      |
|-------------------------------------------------|----------------------------|-----------------|--------------------|-------------------|----------------------|
|                                                 | TREATMENT                  | 0<br>mg/kg<br>I | 10<br>mg/kg<br>III | 100<br>mg/kg<br>V | 1000<br>mg/kg<br>VII |
| URINARY SYSTEM                                  |                            |                 |                    |                   |                      |
| KIDNEYS                                         |                            |                 |                    | (1)               | (10)                 |
| NO ABNORMALITY DETECTED                         |                            |                 |                    |                   | 4                    |
| NEPHROPATHY, CHRONIC PROGRESSIVE.               |                            |                 |                    |                   |                      |
| minimal                                         |                            |                 |                    |                   | 6                    |
| total observations per lesion                   |                            |                 |                    |                   | 6                    |
| DILATATION, PELVIS, UNILATERAL.                 |                            |                 |                    |                   |                      |
| mild                                            |                            |                 |                    |                   |                      |
| total observations per lesion                   |                            |                 |                    | 1                 |                      |
| ENDOCRINE SYSTEM                                |                            |                 |                    | 1                 |                      |
| THYROID GLAND                                   |                            |                 |                    |                   |                      |
| NO ABNORMALITY DETECTED                         |                            |                 |                    |                   | (10)                 |
| REPRODUCTIVE SYSTEM                             |                            |                 |                    |                   | 10                   |
| TESTES                                          |                            |                 |                    |                   |                      |
| NO ABNORMALITY DETECTED                         |                            |                 |                    | (1)               |                      |
| NO MICROSCOPIC EVIDENCE OF MACROSCOPIC FINDING. |                            |                 |                    | 1                 |                      |
|                                                 |                            |                 |                    | 1                 |                      |

Figure in parentheses is number of animals microscopically examined for this tissue  
The absence of a number indicates the lesion specified was not identified

TABLE 14 (CONTINUED)  
INCIDENCES AND LESION GRADES OF MICROSCOPIC OBSERVATIONS IN MALE RATS

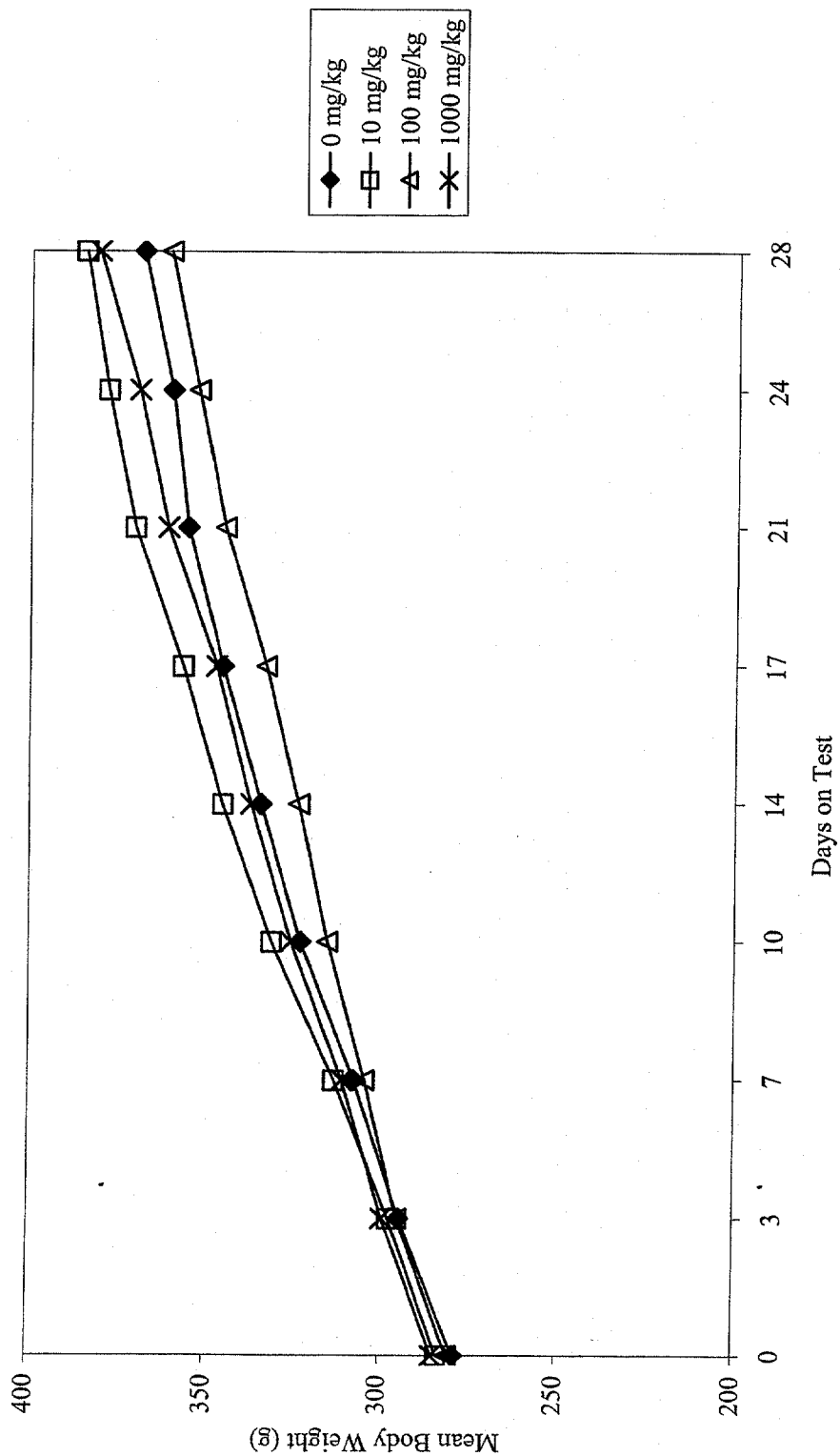
| LESIONS                                  | LESION INCIDENCE (NUMERIC) |                 |                    |                   |                      |
|------------------------------------------|----------------------------|-----------------|--------------------|-------------------|----------------------|
|                                          | TREATMENT                  | 0<br>mg/kg<br>I | 10<br>mg/kg<br>III | 100<br>mg/kg<br>V | 1000<br>mg/kg<br>VII |
| CUTANEOUS SYSTEM                         |                            |                 |                    |                   |                      |
| SKIN                                     |                            |                 |                    |                   |                      |
| NO ABNORMALITY DETECTED                  |                            | (10)<br>10      |                    |                   | (10)<br>10           |
| TISSUES NOT INCLUDED WITHIN BODY SYSTEMS |                            |                 |                    |                   |                      |
| TEETH                                    |                            |                 |                    |                   |                      |
| NO ABNORMALITY DETECTED                  |                            | (10)<br>10      |                    |                   | (10)<br>9            |
| INFLAMMATION, ACUTE.                     |                            |                 |                    |                   |                      |
| mild                                     |                            |                 |                    |                   | 1                    |
| total observations per lesion            |                            |                 |                    |                   | 1                    |
| HEMORRHAGE.                              |                            |                 |                    |                   |                      |
| mild                                     |                            |                 |                    |                   | 1                    |
| total observations per lesion            |                            |                 |                    |                   | 1                    |

Figure in parentheses is number of animals microscopically examined for this tissue  
The absence of a number indicates the lesion specified was not identified

**FIGURES**

Company Sanitized. Does not contain TSCA CBI

FIGURE 1  
MEAN BODY WEIGHTS OF MALE RATS



## **APPENDICES**

**Company Sanitized. Does not contain TSCA CBI**

## **APPENDIX A**

### **Individual Daily Applied Dose Volumes**

**Company Sanitized. Does not contain TSCA CBI**

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Daily Applied Dose Volumes

|                    | dermal<br>µl<br>Day 0 | dermal<br>µl<br>Day 1 | dermal<br>µl<br>Day 2 | dermal<br>µl<br>Day 3 | dermal<br>µl<br>Day 4 | dermal<br>µl<br>Day 5 | dermal<br>µl<br>Day 6 | dermal<br>µl<br>Day 7 | dermal<br>µl<br>Day 8 |
|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Male, I 0 mg/kg    |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 665732             | 248.0                 | 248.0                 | 248.0                 | 264.8                 | 264.8                 | 264.8                 | 264.8                 | 278.2                 | 278.2                 |
| 665733             | 253.0                 | 253.0                 | 253.0                 | 270.1                 | 270.1                 | 270.1                 | 270.1                 | 290.0                 | 290.0                 |
| 665734             | 261.7                 | 261.7                 | 261.7                 | 271.9                 | 271.9                 | 271.9                 | 271.9                 | 279.7                 | 279.7                 |
| 665735             | 239.7                 | 239.7                 | 239.7                 | 240.8                 | 240.8                 | 240.8                 | 240.8                 | 244.4                 | 244.4                 |
| 665736             | 237.6                 | 237.6                 | 237.6                 | 259.2                 | 259.2                 | 259.2                 | 259.2                 | 270.6                 | 270.6                 |
| 665737             | 237.7                 | 237.7                 | 237.7                 | 250.7                 | 250.7                 | 250.7                 | 250.7                 | 260.4                 | 260.4                 |
| 665738             | 207.7                 | 207.7                 | 207.7                 | 215.4                 | 215.4                 | 215.4                 | 215.4                 | 225.7                 | 225.7                 |
| 665739             | 260.8                 | 260.8                 | 260.8                 | 280.1                 | 280.1                 | 280.1                 | 280.1                 | 296.7                 | 296.7                 |
| 665740             | 251.2                 | 251.2                 | 251.2                 | 270.3                 | 270.3                 | 270.3                 | 270.3                 | 281.2                 | 281.2                 |
| 665741             | 225.0                 | 225.0                 | 225.0                 | 237.7                 | 237.7                 | 237.7                 | 237.7                 | 248.4                 | 248.4                 |
| Male, III 10 mg/kg |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 665742             | 2.2                   | 2.2                   | 2.2                   | 2.4                   | 2.4                   | 2.4                   | 2.4                   | 2.5                   | 2.5                   |
| 665743             | 2.3                   | 2.3                   | 2.3                   | 2.4                   | 2.4                   | 2.4                   | 2.4                   | 2.5                   | 2.5                   |
| 665744             | 2.5                   | 2.5                   | 2.5                   | 2.7                   | 2.7                   | 2.7                   | 2.7                   | 2.8                   | 2.8                   |
| 665745             | 2.5                   | 2.5                   | 2.5                   | 2.6                   | 2.6                   | 2.6                   | 2.6                   | 2.7                   | 2.7                   |
| 665746             | 2.4                   | 2.4                   | 2.4                   | 2.6                   | 2.6                   | 2.6                   | 2.6                   | 2.7                   | 2.7                   |
| 665747             | 2.5                   | 2.5                   | 2.5                   | 2.6                   | 2.6                   | 2.6                   | 2.6                   | 2.8                   | 2.8                   |
| 665748             | 2.4                   | 2.4                   | 2.4                   | 2.5                   | 2.5                   | 2.5                   | 2.5                   | 2.6                   | 2.6                   |
| 665749             | 2.5                   | 2.5                   | 2.5                   | 2.5                   | 2.5                   | 2.5                   | 2.5                   | 2.7                   | 2.7                   |
| 665750             | 2.6                   | 2.6                   | 2.6                   | 2.8                   | 2.8                   | 2.8                   | 2.8                   | 2.9                   | 2.9                   |
| 665751             | 2.7                   | 2.7                   | 2.7                   | 2.9                   | 2.9                   | 2.9                   | 2.9                   | 3.0                   | 3.0                   |
| Male, V 100 mg/kg  |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 665752             | 24.2                  | 24.2                  | 24.2                  | 25.9                  | 25.9                  | 25.9                  | 25.9                  | 27.2                  | 27.2                  |
| 665753             | 24.1                  | 24.1                  | 24.1                  | 26.2                  | 26.2                  | 26.2                  | 26.2                  | 26.4                  | 26.4                  |
| 665754             | 25.3                  | 25.3                  | 25.3                  | 27.2                  | 27.2                  | 27.2                  | 27.2                  | 28.0                  | 28.0                  |
| 665755             | 24.1                  | 24.1                  | 24.1                  | 25.3                  | 25.3                  | 25.3                  | 25.3                  | 25.8                  | 25.8                  |
| 665756             | 24.8                  | 24.8                  | 24.8                  | 25.6                  | 25.6                  | 25.6                  | 25.6                  | 26.1                  | 26.1                  |
| 665757             | 23.6                  | 23.6                  | 23.6                  | 24.7                  | 24.7                  | 24.7                  | 24.7                  | 25.4                  | 25.4                  |
| 665758             | 24.0                  | 24.0                  | 24.0                  | 24.4                  | 24.4                  | 24.4                  | 24.4                  | 26.1                  | 26.1                  |
| 665759             | 25.2                  | 25.2                  | 25.2                  | 26.4                  | 26.4                  | 26.4                  | 26.4                  | 27.7                  | 27.7                  |
| 665760             | 26.0                  | 26.0                  | 26.0                  | 26.7                  | 26.7                  | 26.7                  | 26.7                  | 27.2                  | 27.2                  |
| 665761             | 22.6                  | 22.6                  | 22.6                  | 24.4                  | 24.4                  | 24.4                  | 24.4                  | 24.9                  | 24.9                  |

Company Sanitized: Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|                      | Individual Daily Applied Dose Volumes |                       |                       |                       |                       |                       |                       |                       |                       |
|----------------------|---------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                      | dermal<br>µl<br>Day 0                 | dermal<br>µl<br>Day 1 | dermal<br>µl<br>Day 2 | dermal<br>µl<br>Day 3 | dermal<br>µl<br>Day 4 | dermal<br>µl<br>Day 5 | dermal<br>µl<br>Day 6 | dermal<br>µl<br>Day 7 | dermal<br>µl<br>Day 8 |
| Male, VII 1000 mg/kg |                                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 665762               | 241.7                                 | 241.7                 | 241.7                 | 251.1                 | 251.1                 | 251.1                 | 251.1                 | 258.8                 | 258.8                 |
| 665763               | 245.0                                 | 245.0                 | 245.0                 | 265.2                 | 265.2                 | 265.2                 | 265.2                 | 273.7                 | 273.7                 |
| 665764               | 262.3                                 | 262.3                 | 262.3                 | 263.1                 | 263.1                 | 263.1                 | 263.1                 | 275.4                 | 275.4                 |
| 665765               | 241.7                                 | 241.7                 | 241.7                 | 254.3                 | 254.3                 | 254.3                 | 254.3                 | 271.0                 | 271.0                 |
| 665766               | 238.2                                 | 238.2                 | 238.2                 | 261.6                 | 261.6                 | 261.6                 | 261.6                 | 277.0                 | 277.0                 |
| 665767               | 236.6                                 | 236.6                 | 236.6                 | 246.7                 | 246.7                 | 246.7                 | 246.7                 | 255.6                 | 255.6                 |
| 665768               | 251.8                                 | 251.8                 | 251.8                 | 264.6                 | 264.6                 | 264.6                 | 264.6                 | 275.5                 | 275.5                 |
| 665769               | 261.4                                 | 261.4                 | 261.4                 | 273.7                 | 273.7                 | 273.7                 | 273.7                 | 284.8                 | 284.8                 |
| 665770               | 260.8                                 | 260.8                 | 260.8                 | 284.3                 | 284.3                 | 284.3                 | 284.3                 | 289.8                 | 289.8                 |
| 665771               | 236.3                                 | 236.3                 | 236.3                 | 238.7                 | 238.7                 | 238.7                 | 238.7                 | 243.3                 | 243.3                 |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Daily Applied Dose Volumes

|                    | dermal<br>µl<br>Day 9 | dermal<br>µl<br>Day 10 | dermal<br>µl<br>Day 11 | dermal<br>µl<br>Day 12 | dermal<br>µl<br>Day 13 | dermal<br>µl<br>Day 14 | dermal<br>µl<br>Day 15 | dermal<br>µl<br>Day 16 | dermal<br>µl<br>Day 17 |
|--------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Male, I 0 mg/kg    |                       |                        |                        |                        |                        |                        |                        |                        |                        |
| 665732             | 278.2                 | 293.8                  | 293.8                  | 293.8                  | 293.8                  | 306.9                  | 306.9                  | 306.9                  | 309.7                  |
| 665733             | 290.0                 | 302.4                  | 302.4                  | 302.4                  | 302.4                  | 313.0                  | 313.0                  | 313.0                  | 328.3                  |
| 665734             | 279.7                 | 290.3                  | 290.3                  | 290.3                  | 290.3                  | 293.7                  | 293.7                  | 293.7                  | 302.9                  |
| 665735             | 244.4                 | 254.0                  | 254.0                  | 254.0                  | 254.0                  | 260.0                  | 260.0                  | 260.0                  | 268.5                  |
| 665736             | 270.6                 | 287.0                  | 287.0                  | 287.0                  | 287.0                  | 291.7                  | 291.7                  | 291.7                  | 308.0                  |
| 665737             | 260.4                 | 270.0                  | 270.0                  | 270.0                  | 270.0                  | 290.3                  | 290.3                  | 290.3                  | 295.9                  |
| 665738             | 225.7                 | 234.7                  | 234.7                  | 234.7                  | 234.7                  | 248.3                  | 248.3                  | 248.3                  | 260.0                  |
| 665739             | 296.7                 | 310.6                  | 310.6                  | 310.6                  | 310.6                  | 321.7                  | 321.7                  | 321.7                  | 332.0                  |
| 665740             | 281.2                 | 298.1                  | 298.1                  | 298.1                  | 298.1                  | 307.5                  | 307.5                  | 307.5                  | 321.8                  |
| 665741             | 248.4                 | 267.7                  | 267.7                  | 267.7                  | 267.7                  | 274.5                  | 274.5                  | 274.5                  | 278.0                  |
| Male, III 10 mg/kg |                       |                        |                        |                        |                        |                        |                        |                        |                        |
| 665742             | 2.5                   | 2.7                    | 2.7                    | 2.7                    | 2.7                    | 2.9                    | 2.9                    | 2.9                    | 2.9                    |
| 665743             | 2.5                   | 2.6                    | 2.6                    | 2.6                    | 2.6                    | 2.7                    | 2.7                    | 2.7                    | 2.8                    |
| 665744             | 2.8                   | 2.9                    | 2.9                    | 2.9                    | 2.9                    | 3.0                    | 3.0                    | 3.0                    | 3.1                    |
| 665745             | 2.7                   | 2.9                    | 2.9                    | 2.9                    | 2.9                    | 3.1                    | 3.1                    | 3.1                    | 3.2                    |
| 665746             | 2.7                   | 2.9                    | 2.9                    | 2.9                    | 2.9                    | 3.0                    | 3.0                    | 3.0                    | 3.1                    |
| 665747             | 2.8                   | 3.0                    | 3.0                    | 3.0                    | 3.0                    | 3.1                    | 3.1                    | 3.1                    | 3.2                    |
| 665748             | 2.6                   | 2.7                    | 2.7                    | 2.7                    | 2.7                    | 2.8                    | 2.8                    | 2.8                    | 2.8                    |
| 665749             | 2.7                   | 2.8                    | 2.8                    | 2.8                    | 2.8                    | 2.9                    | 2.9                    | 2.9                    | 3.1                    |
| 665750             | 2.9                   | 3.1                    | 3.1                    | 3.1                    | 3.1                    | 3.3                    | 3.3                    | 3.3                    | 3.4                    |
| 665751             | 3.0                   | 3.2                    | 3.2                    | 3.2                    | 3.2                    | 3.3                    | 3.3                    | 3.3                    | 3.4                    |
| Male, V 100 mg/kg  |                       |                        |                        |                        |                        |                        |                        |                        |                        |
| 665752             | 27.2                  | 28.8                   | 28.8                   | 28.8                   | 28.8                   | 29.6                   | 29.6                   | 29.6                   | 29.7                   |
| 665753             | 26.4                  | 27.3                   | 27.3                   | 27.3                   | 27.3                   | 28.2                   | 28.2                   | 28.2                   | 28.6                   |
| 665754             | 28.0                  | 29.0                   | 29.0                   | 29.0                   | 29.0                   | 29.8                   | 29.8                   | 29.8                   | 31.9                   |
| 665755             | 25.8                  | 26.5                   | 26.5                   | 26.5                   | 26.5                   | 27.3                   | 27.3                   | 27.3                   | 28.5                   |
| 665756             | 26.1                  | 27.4                   | 27.4                   | 27.4                   | 27.4                   | 28.7                   | 28.7                   | 28.7                   | 29.4                   |
| 665757             | 25.4                  | 26.1                   | 26.1                   | 26.1                   | 26.1                   | 26.7                   | 26.7                   | 26.7                   | 27.7                   |
| 665758             | 26.1                  | 27.9                   | 27.9                   | 27.9                   | 27.9                   | 28.8                   | 28.8                   | 28.8                   | 29.1                   |
| 665759             | 27.7                  | 27.7                   | 27.7                   | 27.7                   | 27.7                   | 27.7                   | 27.7                   | 27.7                   | 28.2                   |
| 665760             | 27.2                  | 28.0                   | 28.0                   | 28.0                   | 28.0                   | 29.0                   | 29.0                   | 29.0                   | 30.0                   |
| 665761             | 24.9                  | 25.3                   | 25.3                   | 25.3                   | 25.3                   | 25.5                   | 25.5                   | 25.5                   | 26.6                   |

Company Sanitized. Does not contain TSCA CB1

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|                      | Individual Daily Applied Dose Volumes |                        |                        |                        |                        |                        |                        |                        |                        |
|----------------------|---------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                      | dermal<br>µl<br>Day 9                 | dermal<br>µl<br>Day 10 | dermal<br>µl<br>Day 11 | dermal<br>µl<br>Day 12 | dermal<br>µl<br>Day 13 | dermal<br>µl<br>Day 14 | dermal<br>µl<br>Day 15 | dermal<br>µl<br>Day 16 | dermal<br>µl<br>Day 17 |
| Male, VII 1000 mg/kg |                                       |                        |                        |                        |                        |                        |                        |                        |                        |
| 665762               | 258.8                                 | 268.4                  | 268.4                  | 268.4                  | 268.4                  | 275.0                  | 275.0                  | 275.0                  | 269.8                  |
| 665763               | 273.7                                 | 280.4                  | 280.4                  | 280.4                  | 280.4                  | 297.9                  | 297.9                  | 297.9                  | 310.8                  |
| 665764               | 275.4                                 | 291.7                  | 291.7                  | 291.7                  | 291.7                  | 296.4                  | 296.4                  | 296.4                  | 306.3                  |
| 665765               | 271.0                                 | 283.8                  | 283.8                  | 283.8                  | 283.8                  | 299.3                  | 299.3                  | 299.3                  | 306.7                  |
| 665766               | 277.0                                 | 291.1                  | 291.1                  | 291.1                  | 291.1                  | 300.9                  | 300.9                  | 300.9                  | 323.2                  |
| 665767               | 255.6                                 | 263.4                  | 263.4                  | 263.4                  | 263.4                  | 273.4                  | 273.4                  | 273.4                  | 278.3                  |
| 665768               | 275.5                                 | 289.4                  | 289.4                  | 289.4                  | 289.4                  | 310.5                  | 310.5                  | 310.5                  | 315.5                  |
| 665769               | 284.8                                 | 294.4                  | 294.4                  | 294.4                  | 294.4                  | 296.4                  | 296.4                  | 296.4                  | 317.7                  |
| 665770               | 289.8                                 | 307.5                  | 307.5                  | 307.5                  | 307.5                  | 313.3                  | 313.3                  | 313.3                  | 313.1                  |
| 665771               | 243.3                                 | 261.6                  | 261.6                  | 261.6                  | 261.6                  | 270.8                  | 270.8                  | 270.8                  | 279.7                  |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Daily Applied Dose Volumes

|                    | dermal<br>µl<br>Day 18 | dermal<br>µl<br>Day 19 | dermal<br>µl<br>Day 20 | dermal<br>µl<br>Day 21 | dermal<br>µl<br>Day 22 | dermal<br>µl<br>Day 23 | dermal<br>µl<br>Day 24 | dermal<br>µl<br>Day 25 | dermal<br>µl<br>Day 26 |
|--------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Male, I 0 mg/kg    |                        |                        |                        |                        |                        |                        |                        |                        |                        |
| 665732             | 309.7                  | 309.7                  | 309.7                  | 328.0                  | 328.0                  | 328.0                  | 342.4                  | 342.4                  | 342.4                  |
| 665733             | 328.3                  | 328.3                  | 328.3                  | 331.9                  | 331.9                  | 331.9                  | 341.7                  | 341.7                  | 341.7                  |
| 665734             | 302.9                  | 302.9                  | 302.9                  | 310.9                  | 310.9                  | 310.9                  | 316.4                  | 316.4                  | 316.4                  |
| 665735             | 268.5                  | 268.5                  | 268.5                  | 286.8                  | 286.8                  | 286.8                  | 290.3                  | 290.3                  | 290.3                  |
| 665736             | 308.0                  | 308.0                  | 308.0                  | 318.3                  | 318.3                  | 318.3                  | 322.3                  | 322.3                  | 322.3                  |
| 665737             | 295.9                  | 295.9                  | 295.9                  | 295.1                  | 295.1                  | 295.1                  | 294.6                  | 294.6                  | 294.6                  |
| 665738             | 260.0                  | 260.0                  | 260.0                  | 269.0                  | 269.0                  | 269.0                  | 265.5                  | 265.5                  | 265.5                  |
| 665739             | 332.0                  | 332.0                  | 332.0                  | 338.5                  | 338.5                  | 338.5                  | 335.4                  | 335.4                  | 335.4                  |
| 665740             | 321.8                  | 321.8                  | 321.8                  | 325.0                  | 325.0                  | 325.0                  | 332.1                  | 332.1                  | 332.1                  |
| 665741             | 278.0                  | 278.0                  | 278.0                  | 288.9                  | 288.9                  | 288.9                  | 290.4                  | 290.4                  | 290.4                  |
| Male, III 10 mg/kg |                        |                        |                        |                        |                        |                        |                        |                        |                        |
| 665742             | 2.9                    | 2.9                    | 2.9                    | 3.1                    | 3.1                    | 3.1                    | 3.2                    | 3.2                    | 3.2                    |
| 665743             | 2.8                    | 2.8                    | 2.8                    | 2.8                    | 2.8                    | 2.8                    | 2.9                    | 2.9                    | 2.9                    |
| 665744             | 3.1                    | 3.1                    | 3.1                    | 3.3                    | 3.3                    | 3.3                    | 3.3                    | 3.3                    | 3.3                    |
| 665745             | 3.2                    | 3.2                    | 3.2                    | 3.3                    | 3.3                    | 3.3                    | 3.5                    | 3.5                    | 3.5                    |
| 665746             | 3.1                    | 3.1                    | 3.1                    | 3.2                    | 3.2                    | 3.2                    | 3.3                    | 3.3                    | 3.3                    |
| 665747             | 3.2                    | 3.2                    | 3.2                    | 3.4                    | 3.4                    | 3.4                    | 3.4                    | 3.4                    | 3.4                    |
| 665748             | 2.8                    | 2.8                    | 2.8                    | 2.9                    | 2.9                    | 2.9                    | 3.0                    | 3.0                    | 3.0                    |
| 665749             | 3.1                    | 3.1                    | 3.1                    | 3.2                    | 3.2                    | 3.2                    | 3.2                    | 3.2                    | 3.2                    |
| 665750             | 3.4                    | 3.4                    | 3.4                    | 3.6                    | 3.6                    | 3.6                    | 3.6                    | 3.6                    | 3.6                    |
| 665751             | 3.4                    | 3.4                    | 3.4                    | 3.5                    | 3.5                    | 3.5                    | 3.6                    | 3.6                    | 3.6                    |
| Male, V 100 mg/kg  |                        |                        |                        |                        |                        |                        |                        |                        |                        |
| 665752             | 29.7                   | 29.7                   | 29.7                   | 30.9                   | 30.9                   | 30.9                   | 31.5                   | 31.5                   | 31.5                   |
| 665753             | 28.6                   | 28.6                   | 28.6                   | 28.8                   | 28.8                   | 28.8                   | 30.4                   | 30.4                   | 30.4                   |
| 665754             | 31.9                   | 31.9                   | 31.9                   | 32.4                   | 32.4                   | 32.4                   | 33.7                   | 33.7                   | 33.7                   |
| 665755             | 28.5                   | 28.5                   | 28.5                   | 30.6                   | 30.6                   | 30.6                   | 31.6                   | 31.6                   | 31.6                   |
| 665756             | 29.4                   | 29.4                   | 29.4                   | 30.2                   | 30.2                   | 30.2                   | 30.4                   | 30.4                   | 30.4                   |
| 665757             | 27.7                   | 27.7                   | 27.7                   | 29.1                   | 29.1                   | 29.1                   | 28.7                   | 28.7                   | 28.7                   |
| 665758             | 29.1                   | 29.1                   | 29.1                   | 30.1                   | 30.1                   | 30.1                   | 30.7                   | 30.7                   | 30.7                   |
| 665759             | 28.2                   | 28.2                   | 28.2                   | 30.0                   | 30.0                   | 30.0                   | 31.1                   | 31.1                   | 31.1                   |
| 665760             | 30.0                   | 30.0                   | 30.0                   | 30.9                   | 30.9                   | 30.9                   | 30.7                   | 30.7                   | 30.7                   |
| 665761             | 26.6                   | 26.6                   | 26.6                   | 27.1                   | 27.1                   | 27.1                   | 27.9                   | 27.9                   | 27.9                   |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|                      | Individual Daily Applied Dose Volumes |                        |                        |                        |                        |                        |                        |                        |                        |  |
|----------------------|---------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--|
|                      | dermal<br>µl<br>Day 18                | dermal<br>µl<br>Day 19 | dermal<br>µl<br>Day 20 | dermal<br>µl<br>Day 21 | dermal<br>µl<br>Day 22 | dermal<br>µl<br>Day 23 | dermal<br>µl<br>Day 24 | dermal<br>µl<br>Day 25 | dermal<br>µl<br>Day 26 |  |
| Male, VII 1000 mg/kg |                                       |                        |                        |                        |                        |                        |                        |                        |                        |  |
| 665762               | 269.8                                 | 269.8                  | 269.8                  | 284.5                  | 284.5                  | 284.5                  | 295.4                  | 295.4                  | 295.4                  |  |
| 665763               | 310.8                                 | 310.8                  | 310.8                  | 318.3                  | 318.3                  | 318.3                  | 336.6                  | 336.6                  | 336.6                  |  |
| 665764               | 306.3                                 | 306.3                  | 306.3                  | 318.3                  | 318.3                  | 318.3                  | 320.4                  | 320.4                  | 320.4                  |  |
| 665765               | 306.7                                 | 306.7                  | 306.7                  | 317.9                  | 317.9                  | 317.9                  | 329.1                  | 329.1                  | 329.1                  |  |
| 665766               | 323.2                                 | 323.2                  | 323.2                  | 348.7                  | 348.7                  | 348.7                  | 353.7                  | 353.7                  | 353.7                  |  |
| 665767               | 278.3                                 | 278.3                  | 278.3                  | 292.4                  | 292.4                  | 292.4                  | 300.1                  | 300.1                  | 300.1                  |  |
| 665768               | 315.5                                 | 315.5                  | 315.5                  | 324.9                  | 324.9                  | 324.9                  | 330.4                  | 330.4                  | 330.4                  |  |
| 665769               | 317.7                                 | 317.7                  | 317.7                  | 323.1                  | 323.1                  | 323.1                  | 321.7                  | 321.7                  | 321.7                  |  |
| 665770               | 313.1                                 | 313.1                  | 313.1                  | 326.3                  | 326.3                  | 326.3                  | 340.1                  | 340.1                  | 340.1                  |  |
| 665771               | 279.7                                 | 279.7                  | 279.7                  | 286.4                  | 286.4                  | 286.4                  | 285.7                  | 285.7                  | 285.7                  |  |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Daily Applied Dose Volumes

|                    | dermal<br>μl<br>Day 27 | dermal<br>μl<br>Day 28 |
|--------------------|------------------------|------------------------|
| Male, I 0 mg/kg    |                        |                        |
| 665732             | 342.4                  | 337.7                  |
| 665733             | 341.7                  | 348.0                  |
| 665734             | 316.4                  | 329.8                  |
| 665735             | 290.3                  | 304.8                  |
| 665736             | 322.3                  | 324.3                  |
| 665737             | 294.6                  | 298.2                  |
| 665738             | 265.5                  | 275.0                  |
| 665739             | 335.4                  | 349.8                  |
| 665740             | 332.1                  | 343.7                  |
| 665741             | 290.4                  | 292.3                  |
| Male, III 10 mg/kg |                        |                        |
| 665742             | 3.2                    | 3.3                    |
| 665743             | 2.9                    | 2.9                    |
| 665744             | 3.3                    | 3.2                    |
| 665745             | 3.5                    | 3.6                    |
| 665746             | 3.3                    | 3.3                    |
| 665747             | 3.4                    | 3.6                    |
| 665748             | 3.0                    | 3.0                    |
| 665749             | 3.2                    | 3.2                    |
| 665750             | 3.6                    | 3.5                    |
| 665751             | 3.6                    | 3.7                    |
| Male, V 100 mg/kg  |                        |                        |
| 665752             | 31.5                   | 32.5                   |
| 665753             | 30.4                   | 30.9                   |
| 665754             | 33.7                   | 34.4                   |
| 665755             | 31.6                   | 31.7                   |
| 665756             | 30.4                   | 31.1                   |
| 665757             | 28.7                   | 30.5                   |
| 665758             | 30.7                   | 33.0                   |
| 665759             | 31.1                   | 31.1                   |
| 665760             | 30.7                   | 30.8                   |
| 665761             | 27.9                   | 27.7                   |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Daily Applied Dose Volumes

|                      | dermal<br>μl<br>Day 27 | dermal<br>μl<br>Day 28 |
|----------------------|------------------------|------------------------|
| Male, VII 1000 mg/kg |                        |                        |
| 665762               | 295.4                  | 303.5                  |
| 665763               | 336.6                  | 339.2                  |
| 665764               | 320.4                  | 334.1                  |
| 665765               | 329.1                  | 337.5                  |
| 665766               | 353.7                  | 356.0                  |
| 665767               | 300.1                  | 305.9                  |
| 665768               | 330.4                  | 351.0                  |
| 665769               | 321.7                  | 333.1                  |
| 665770               | 340.1                  | 352.4                  |
| 665771               | 285.7                  | 301.6                  |

Company Sanitized. Does not contain TSCA CBI

## **APPENDIX B**

### **Individual Body Weights**

**Company Sanitized. Does not contain TSCA CBI**

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|                    | Individual Body Weights |             |             |             |             |             |             |             |             |             |
|--------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                    | Body Weight             | Body Weight | Body Weight | Body Weight | Body Weight | Body Weight | Body Weight | Body Weight | Body Weight | Body Weight |
|                    | g                       | g           | g           | g           | g           | g           | g           | g           | g           | g           |
|                    | Day 0                   | Day 3       | Day 7       | Day 10      | Day 14      | Day 17      | Day 21      | Day 24      | Day 28      |             |
| Male, I 0 mg/kg    |                         |             |             |             |             |             |             |             |             |             |
| 665732             | 285.2                   | 304.5       | 319.9       | 337.9       | 352.9       | 356.2       | 377.2       | 393.8       | 388.4       |             |
| 665733             | 291.0                   | 310.6       | 333.5       | 347.8       | 360.0       | 377.5       | 381.7       | 393.0       | 400.2       |             |
| 665734             | 300.9                   | 312.7       | 321.7       | 333.9       | 337.8       | 348.3       | 357.5       | 363.9       | 379.3       |             |
| 665735             | 275.6                   | 276.9       | 281.1       | 292.1       | 299.0       | 308.8       | 329.8       | 333.9       | 350.5       |             |
| 665736             | 273.2                   | 298.1       | 311.2       | 330.1       | 335.4       | 354.2       | 366.1       | 370.7       | 372.9       |             |
| 665737             | 273.3                   | 288.3       | 299.5       | 310.5       | 333.8       | 340.3       | 333.4       | 338.8       | 342.9       |             |
| 665738             | 238.9                   | 247.7       | 259.5       | 269.9       | 285.6       | 299.0       | 309.3       | 305.3       | 316.2       |             |
| 665739             | 299.9                   | 322.1       | 341.2       | 357.2       | 369.9       | 381.8       | 389.3       | 385.7       | 402.3       |             |
| 665740             | 288.9                   | 310.8       | 323.4       | 342.8       | 353.6       | 370.1       | 373.8       | 381.9       | 395.3       |             |
| 665741             | 258.8                   | 273.4       | 285.7       | 307.9       | 315.7       | 319.7       | 332.2       | 334.0       | 336.2       |             |
| Male, III 10 mg/kg |                         |             |             |             |             |             |             |             |             |             |
| 665742             | 257.6                   | 275.1       | 283.8       | 310.8       | 330.9       | 337.8       | 356.7       | 368.7       | 377.2       |             |
| 665743             | 263.3                   | 280.9       | 289.9       | 300.8       | 311.9       | 320.5       | 326.0       | 328.3       | 338.6       |             |
| 665744             | 291.6                   | 307.4       | 320.8       | 328.7       | 346.0       | 357.8       | 374.6       | 382.0       | 373.3       |             |
| 665745             | 285.0                   | 297.4       | 315.4       | 335.7       | 351.0       | 362.4       | 382.7       | 396.8       | 416.7       |             |
| 665746             | 277.4                   | 295.4       | 314.4       | 333.0       | 347.3       | 360.7       | 365.0       | 374.9       | 380.1       |             |
| 665747             | 285.6                   | 294.9       | 322.6       | 344.5       | 361.6       | 373.2       | 387.0       | 395.1       | 410.8       |             |
| 665748             | 277.3                   | 284.1       | 298.5       | 310.9       | 316.3       | 320.4       | 331.1       | 339.8       | 345.3       |             |
| 665749             | 285.2                   | 291.3       | 305.1       | 325.8       | 334.3       | 350.7       | 364.6       | 373.3       | 371.3       |             |
| 665750             | 304.2                   | 319.8       | 335.3       | 358.0       | 378.3       | 391.9       | 412.9       | 408.8       | 404.0       |             |
| 665751             | 305.3                   | 329.2       | 347.6       | 364.4       | 377.6       | 392.1       | 405.4       | 415.8       | 430.7       |             |
| Male, V 100 mg/kg  |                         |             |             |             |             |             |             |             |             |             |
| 665752             | 278.4                   | 298.4       | 312.6       | 331.7       | 340.7       | 341.7       | 355.3       | 362.6       | 373.2       |             |
| 665753             | 277.7                   | 300.8       | 303.5       | 314.5       | 324.6       | 329.3       | 331.0       | 349.4       | 355.6       |             |
| 665754             | 290.5                   | 312.7       | 322.2       | 333.0       | 343.0       | 366.7       | 372.7       | 387.6       | 396.1       |             |
| 665755             | 277.1                   | 290.4       | 296.3       | 305.2       | 313.8       | 328.2       | 351.5       | 363.8       | 364.5       |             |
| 665756             | 285.2                   | 294.2       | 300.4       | 315.4       | 330.5       | 338.1       | 347.0       | 349.8       | 357.6       |             |
| 665757             | 271.3                   | 283.9       | 292.1       | 300.4       | 307.6       | 318.1       | 335.1       | 329.5       | 351.1       |             |
| 665758             | 275.7                   | 280.1       | 300.7       | 320.7       | 331.1       | 334.3       | 346.5       | 352.9       | 379.2       |             |
| 665759             | 289.8                   | 303.7       | 318.5       | 318.7       | 318.6       | 324.2       | 345.3       | 358.0       | 357.3       |             |
| 665760             | 298.6                   | 306.5       | 313.3       | 322.5       | 333.0       | 344.5       | 354.8       | 352.7       | 353.8       |             |
| 665761             | 260.0                   | 280.1       | 286.7       | 291.4       | 293.5       | 306.1       | 312.0       | 321.4       | 318.7       |             |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|                      | Individual Body Weights |             |             |             |             |             |             |             |             |             |
|----------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                      | Body Weight             | Body Weight | Body Weight | Body Weight | Body Weight | Body Weight | Body Weight | Body Weight | Body Weight | Body Weight |
|                      | g                       | g           | g           | g           | g           | g           | g           | g           | g           | g           |
|                      | Day 0                   | Day 3       | Day 7       | Day 10      | Day 14      | Day 17      | Day 21      | Day 24      | Day 28      |             |
| Male, VII 1000 mg/kg |                         |             |             |             |             |             |             |             |             |             |
| 665762               | 277.9                   | 288.8       | 297.6       | 308.7       | 316.3       | 310.3       | 327.2       | 339.7       | 349.0       |             |
| 665763               | 281.7                   | 305.0       | 314.7       | 322.5       | 342.6       | 357.4       | 366.1       | 387.1       | 390.1       |             |
| 665764               | 301.6                   | 302.6       | 316.7       | 335.5       | 340.9       | 352.2       | 366.1       | 368.5       | 384.2       |             |
| 665765               | 277.9                   | 292.4       | 311.7       | 326.4       | 344.2       | 352.7       | 365.6       | 378.5       | 388.1       |             |
| 665766               | 273.9                   | 300.8       | 318.6       | 334.8       | 346.0       | 371.7       | 401.0       | 406.8       | 409.4       |             |
| 665767               | 272.1                   | 283.7       | 293.9       | 302.9       | 314.4       | 320.1       | 336.3       | 345.1       | 351.8       |             |
| 665768               | 289.6                   | 304.3       | 316.8       | 332.8       | 357.1       | 362.8       | 373.6       | 380.0       | 403.6       |             |
| 665769               | 300.6                   | 314.8       | 327.5       | 338.6       | 340.9       | 365.4       | 371.6       | 370.0       | 383.1       |             |
| 665770               | 299.9                   | 326.9       | 333.3       | 353.6       | 360.3       | 360.1       | 375.3       | 391.1       | 405.3       |             |
| 665771               | 271.7                   | 274.5       | 279.8       | 300.8       | 311.4       | 321.6       | 329.4       | 328.5       | 346.8       |             |

Company Sanitized. Does not contain TSCA CBI

## **APPENDIX C**

### **Individual Food Consumption**

Company Sanitized. Does not contain TSCA CBI

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Individual Food Consumption

|                      | Food Cons.<br>g/anm/day<br>Day 7 | Food Cons.<br>g/anm/day<br>Day 14 | Food Cons.<br>g/anm/day<br>Day 21 | Food Cons.<br>g/anm/day<br>Day 28 |
|----------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Male, I 0 mg/kg      |                                  |                                   |                                   |                                   |
| 665732               | 27.1                             | 27.8                              | 28.3                              | 28.2                              |
| 665733               | 27.4                             | 27.4                              | 28.2                              | 28.4                              |
| 665734               | 26.1                             | 25.6                              | 25.4                              | 26.7                              |
| 665735               | 21.5                             | 22.2                              | 24.3                              | 26.5                              |
| 665736               | 28.5                             | 27.6                              | 27.1                              | 27.4                              |
| 665737               | 27.3                             | 27.6                              | 26.1                              | 27.1                              |
| 665738               | 25.2                             | 26.4                              | 25.9                              | 26.2                              |
| 665739               | 28.3                             | 26.7                              | 27.3                              | 28.5                              |
| 665740               | 28.1                             | 27.4                              | 26.7                              | 27.2                              |
| 665741               | 27.4                             | 27.2                              | 24.5                              | 26.4                              |
| Male, III 10 mg/kg   |                                  |                                   |                                   |                                   |
| 665742               | 27.8                             | 27.8                              | 27.1                              | 28.4                              |
| 665743               | 24.9                             | 24.5                              | 24.5                              | 26.8                              |
| 665744               | 26.8                             | 25.8                              | 27.0                              | 27.1                              |
| 665745               | 25.0                             | 26.9                              | 27.9                              | 29.9                              |
| 665746               | 26.0                             | 27.9                              | 27.1                              | 27.8                              |
| 665747               | 26.6                             | 28.6                              | 27.0                              | 27.0                              |
| 665748               | 25.7                             | 25.1                              | 24.9                              | 25.2                              |
| 665749               | 23.1                             | 24.9                              | 25.5                              | 26.4                              |
| 665750               | 27.6                             | 29.8                              | 29.8                              | 28.2                              |
| 665751               | 28.4                             | 27.7                              | 27.8                              | 28.3                              |
| Male, V 100 mg/kg    |                                  |                                   |                                   |                                   |
| 665752               | 26.9                             | 26.6                              | 27.1                              | 28.7                              |
| 665753               | 25.8                             | 24.6                              | 25.4                              | 28.0                              |
| 665754               | 27.1                             | 27.4                              | 27.7                              | 28.0                              |
| 665755               | 27.2                             | 26.5                              | 27.7                              | 28.1                              |
| 665756               | 23.3                             | 24.0                              | 25.5                              | 27.3                              |
| 665757               | 24.5                             | 26.0                              | 25.6                              | 26.9                              |
| 665758               | 22.9                             | 24.7                              | 25.7                              | 28.3                              |
| 665759               | 25.2                             | 25.3                              | 25.9                              | 24.3                              |
| 665760               | 26.0                             | 26.2                              | 25.7                              | 26.3                              |
| 665761               | 27.1                             | 24.7                              | 25.0                              | 26.4                              |
| Male, VII 1000 mg/kg |                                  |                                   |                                   |                                   |
| 665762               | 25.7                             | 26.7                              | 26.8                              | 27.8                              |
| 665763               | 29.0                             | 29.5                              | 28.2                              | 28.9                              |
| 665764               | 24.4                             | 25.5                              | 26.1                              | 25.7                              |
| 665765               | 25.6                             | 26.6                              | 25.9                              | 27.1                              |
| 665766               | 28.2                             | 28.3                              | 31.0                              | 28.7                              |
| 665767               | 24.4                             | 24.5                              | 26.0                              | 26.5                              |
| 665768               | 27.0                             | 28.5                              | 26.9                              | 27.5                              |
| 665769               | 26.6                             | 27.4                              | 29.6                              | 27.2                              |
| 665770               | 28.2                             | 28.4                              | 26.5                              | 28.8                              |
| 665771               | 22.2                             | 25.2                              | 24.9                              | 26.9                              |

Company Sanitized. Does not contain TSCA CBI

## **APPENDIX D**

### **Individual Clinical Observations and Mortality Records**

**Company Sanitized. Does not contain TSCA CBI**

## INDIVIDUAL CLINICAL OBSERVATIONS AND MORTALITY RECORDS

### EXPLANATORY NOTES

Clinical observations reported in this appendix were recorded during body weight collection.  
Clinical observations recorded post-dosing are not included.

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Clinical Observations and Mortality Records

| Sex | Group | Animal | Observation                                             | Days                                |
|-----|-------|--------|---------------------------------------------------------|-------------------------------------|
| M   | I     | 665732 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | I     | 665733 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | I     | 665734 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | I     | 665735 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | I     | 665736 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | I     | 665737 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Sacrificed by design                                    | 29                                  |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Clinical Observations and Mortality Records

| Sex | Group | Animal | Observation                                            | Days                                |
|-----|-------|--------|--------------------------------------------------------|-------------------------------------|
| M   | I     | 665738 | General observation, No Abnormality Detected           | 0, 3, 7, 10, 14, 17, 28, 29         |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left | 29                                  |
|     |       |        | Wound, Superficial, Abdomen                            | 21, 24                              |
|     |       |        | Sacrificed by design                                   | 29                                  |
| M   | I     | 665739 | General observation, No Abnormality Detected           | 0, 3, 7, 10, 14, 28, 29             |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left | 29                                  |
|     |       |        | Hair Loss, Neck, Right                                 | 21, 24                              |
|     |       |        | Wound, Superficial, Shoulder, Left                     | 17                                  |
|     |       |        | Sacrificed by design                                   | 29                                  |
| M   | I     | 665740 | General observation, No Abnormality Detected           | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left | 29                                  |
|     |       |        | Sacrificed by design                                   | 29                                  |
| M   | I     | 665741 | General observation, No Abnormality Detected           | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left | 29                                  |
|     |       |        | Sacrificed by design                                   | 29                                  |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Clinical Observations and Mortality Records

| Sex | Group | Animal | Observation                                             | Days                                |
|-----|-------|--------|---------------------------------------------------------|-------------------------------------|
| M   | III   | 665742 | General observation, No Abnormality Detected            | 0, 7, 10, 14, 17, 21, 24, 28, 29    |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Discharge, Nose, Red                                    | 3                                   |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | III   | 665743 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | III   | 665744 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14                     |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Wound, Superficial, Dorsal Body, outside of test area   | 17                                  |
|     |       |        | Wound, Superficial, Dorsal Body, out of the test area   | 24, 28, 29                          |
|     |       |        | Wound, Superficial, Shoulder, Bilateral                 | 21, 24, 28, 29                      |
|     |       |        | Wound, Superficial, Shoulder, Right                     | 17                                  |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | III   | 665745 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Clinical Observations and Mortality Records

| Sex | Group | Animal | Observation                                             | Days                                |
|-----|-------|--------|---------------------------------------------------------|-------------------------------------|
| M   | III   | 665746 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24         |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Hair Loss, Forepaw, Left                                | 28, 29                              |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | III   | 665747 | General observation, No Abnormality Detected            | 0, 7, 10, 14, 17, 21, 24, 28, 29    |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Discharge, Nose, Red                                    | 3                                   |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | III   | 665748 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | III   | 665749 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | III   | 665750 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | III   | 665751 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Sacrificed by design                                    | 29                                  |
|     |       |        | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Sacrificed by design                                    | 29                                  |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Clinical Observations and Mortality Records

| Sex | Group | Animal | Observation                                             | Days                                |
|-----|-------|--------|---------------------------------------------------------|-------------------------------------|
| M   | V     | 665752 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | V     | 665753 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | V     | 665754 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | V     | 665755 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Clinical Observations and Mortality Records

| Sex | Group | Animal | Observation                                             | Days                                |
|-----|-------|--------|---------------------------------------------------------|-------------------------------------|
| M   | V     | 665756 | General observation, No Abnormality Detected            | 0, 3, 7                             |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Hair Loss, Forepaw, Left                                | 14, 17, 21, 24, 28, 29              |
|     |       |        | Hair Loss, Shoulder, Bilateral                          | 29                                  |
|     |       |        | Wound, Superficial, Dorsal Body, outside test area      | 28                                  |
|     |       |        | Wound, Superficial, Forepaw, Left                       | 10                                  |
|     |       |        | Wound, Superficial, Shoulder, Bilateral                 | 21, 24, 28                          |
|     |       |        | Wound, Superficial, Shoulder, Left                      | 14, 17                              |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | V     | 665757 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | V     | 665758 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | V     | 665759 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | V     | 665760 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | V     | 665761 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Sacrificed by design                                    | 29                                  |

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Clinical Observations and Mortality Records

| Sex | Group | Animal | Observation                                             | Days                                |
|-----|-------|--------|---------------------------------------------------------|-------------------------------------|
| M   | VII   | 665762 | General observation, No Abnormality Detected            | 0, 3                                |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Hair Loss, Forepaw, Bilateral                           | 7, 10, 14, 17, 21, 24, 28, 29       |
|     |       |        | Wound, Superficial, Forelimb, Right                     | 7, 10                               |
|     |       |        | Wound, Superficial, Forepaw, Left                       | 7, 10                               |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | VII   | 665763 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | VII   | 665764 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | VII   | 665765 | General observation, No Abnormality Detected            | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |
| M   | VII   | 665766 | General observation, No Abnormality Detected            | 0, 3, 7, 28, 29                     |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Left  | 29                                  |
|     |       |        | Eye Observations, Bled via Orbital for Clin Path, Right | 3, 9, 21                            |
|     |       |        | Sacrificed by design                                    | 29                                  |
|     |       |        | Hair Loss, Forepaw, Bilateral                           | 10, 14, 17, 21, 24                  |
|     |       |        | Sacrificed by design                                    | 29                                  |

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

| Individual Clinical Observations and Mortality Records |       |        |                                                        |                                     |
|--------------------------------------------------------|-------|--------|--------------------------------------------------------|-------------------------------------|
| Sex                                                    | Group | Animal | Observation                                            | Days                                |
| M                                                      | VII   | 665767 | General observation, No Abnormality Detected           | 0, 3, 7, 10, 14, 17, 21, 24, 28     |
|                                                        |       |        | Eye Observations, Bled via Orbital for Clin Path, Left | 29                                  |
|                                                        |       |        | Discharge, Eye right, Red                              | 29                                  |
|                                                        |       |        | Sacrificed by design                                   | 29                                  |
| M                                                      | VII   | 665768 | General observation, No Abnormality Detected           | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|                                                        |       |        | Eye Observations, Bled via Orbital for Clin Path, Left | 29                                  |
|                                                        |       |        | Sacrificed by design                                   | 29                                  |
| M                                                      | VII   | 665769 | General observation, No Abnormality Detected           | 0, 3, 7, 10, 29                     |
|                                                        |       |        | Eye Observations, Bled via Orbital for Clin Path, Left | 29                                  |
|                                                        |       |        | Wound, Superficial, Dorsal Body, outside the test area | 14, 17, 21, 24, 28                  |
|                                                        |       |        | Sacrificed by design                                   | 29                                  |
| M                                                      | VII   | 665770 | General observation, No Abnormality Detected           | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|                                                        |       |        | Eye Observations, Bled via Orbital for Clin Path, Left | 29                                  |
|                                                        |       |        | Sacrificed by design                                   | 29                                  |
| M                                                      | VII   | 665771 | General observation, No Abnormality Detected           | 0, 3, 7, 10, 14, 17, 21, 24, 28, 29 |
|                                                        |       |        | Eye Observations, Bled via Orbital for Clin Path, Left | 29                                  |
|                                                        |       |        | Sacrificed by design                                   | 29                                  |

Company Sanitized. Does not contain TSCA CBI

## **APPENDIX E**

### **Individual Clinical Observations - Post-Dosing**

**Company Sanitized. Does not contain TSCA CBI**

## INDIVIDUAL CLINICAL OBSERVATIONS- POST-DOSING

### EXPLANATORY NOTES

Clinical observations reported in this appendix were recorded daily after removal of the test substance. Clinical observations recorded during body weight collection are not included.

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|     |       |        | Individual Clinical Observations - Post-Dosing |                                                        |
|-----|-------|--------|------------------------------------------------|--------------------------------------------------------|
| Sex | Group | Animal | Observation                                    | Days                                                   |
| M   | I     | 665732 | General observation, No Abnormality Detected   | 5, 10-13, 14, 16, 17, 19-20, 21-23, 24-27              |
|     |       |        | Discharge, Eye bilateral, Red                  | 1-2, 3-4, 6, 7-8, 9, 28                                |
|     |       |        | Discharge, Eye right, Red                      | 0, 15, 18                                              |
|     |       |        | Swollen Observations, Face                     | 1                                                      |
| M   | I     | 665733 | General observation, No Abnormality Detected   | 0, 2, 4-5, 7-8, 11-13, 14, 16, 18-20, 21-23, 24-27, 28 |
|     |       |        | Discharge, Eye bilateral, Red                  | 1, 3, 6, 9, 17                                         |
|     |       |        | Discharge, Eye right, Red                      | 10, 15                                                 |
| M   | I     | 665734 | General observation, No Abnormality Detected   | 0, 4-5, 7, 14-15, 22, 24-27, 28                        |
|     |       |        | Discharge, Eye bilateral, Red                  | 1-2, 3, 6, 8, 9, 12-13, 17-19, 21, 23                  |
|     |       |        | Discharge, Nose, Red                           | 3                                                      |
|     |       |        | Discharge, Eye right, Red                      | 10-11, 16, 20                                          |
|     |       |        | Swollen Observations, Face                     | 1, 23                                                  |
| M   | I     | 665735 | General observation, No Abnormality Detected   | 2, 3-6, 7, 9, 11-13, 14-15, 17-19, 21, 24-27, 28       |
|     |       |        | Discharge, Eye bilateral, Red                  | 0-1, 10, 16, 22-23                                     |
|     |       |        | Discharge, Eye left, Red                       | 8                                                      |
|     |       |        | Discharge, Eye right, Red                      | 20                                                     |
| M   | I     | 665736 | General observation, No Abnormality Detected   | 4, 7-8, 9, 10, 13, 14-16, 17-20, 23, 24-26, 28         |
|     |       |        | Discharge, Eye bilateral, Red                  | 0-2, 3, 5-6, 11-12, 21-22, 27                          |
| M   | I     | 665737 | General observation, No Abnormality Detected   | 11, 13, 14-15, 17-20, 25-26, 28                        |
|     |       |        | Discharge, Eye bilateral, Red                  | 0-2, 3-6, 7-9, 12, 16, 21-22, 24, 27                   |
|     |       |        | Discharge, Eye right, Red                      | 10, 23                                                 |

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

| Individual Clinical Observations - Post-Dosing |       |        |                                              |                                                     |
|------------------------------------------------|-------|--------|----------------------------------------------|-----------------------------------------------------|
| Sex                                            | Group | Animal | Observation                                  | Days                                                |
| M                                              | I     | 665738 | General observation, No Abnormality Detected | 10-13, 15, 17                                       |
|                                                |       |        | Discharge, Eye bilateral, Red                | 3-4, 6, 7, 9, 14, 16, 18-20, 21-23, 24-27, 28       |
|                                                |       |        | Discharge, Eye right, Red                    | 0-2, 5, 8                                           |
|                                                |       |        | Wound, Superficial, Abdomen                  | 21-23, 24-26                                        |
| M                                              | I     | 665739 | General observation, No Abnormality Detected | 0, 2, 3, 5-6, 7, 9, 10-11, 16, 19                   |
|                                                |       |        | Discharge, Eye bilateral, Red                | 4, 8, 12-13, 14-15, 18, 20, 27, 28                  |
|                                                |       |        | Hair Loss, Neck, Right                       | 21-23, 24-26                                        |
|                                                |       |        | Wound, Superficial, Shoulder, Left           | 17-18                                               |
|                                                |       |        | Swollen Observations, Face                   | 1, 4                                                |
| M                                              | I     | 665740 | General observation, No Abnormality Detected | 1-2, 4-6, 7, 10-13, 14-16, 17-20, 21, 23, 24-27, 28 |
|                                                |       |        | Discharge, Eye bilateral, Red                | 8-9, 22                                             |
|                                                |       |        | Swollen Observations, Face                   | 0, 3                                                |
| M                                              | I     | 665741 | General observation, No Abnormality Detected | 1-2, 4, 10, 12-13, 16, 19, 21-22, 24, 26, 28        |
|                                                |       |        | Discharge, Eye bilateral, Red                | 0, 3, 5-6, 7-9, 11, 15, 17-18, 20, 23, 25, 27       |
|                                                |       |        | Discharge, Eye right, Red                    | 14                                                  |

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|     |       |        | Individual Clinical Observations - Post-Dosing        |                                                           |
|-----|-------|--------|-------------------------------------------------------|-----------------------------------------------------------|
| Sex | Group | Animal | Observation                                           | Days                                                      |
| M   | III   | 665742 | General observation, No Abnormality Detected          | 1-2, 3-6, 7-8, 9, 10-13, 14-16, 17-20, 21, 23, 26-27, 28  |
|     |       |        | Discharge, Eye bilateral, Red                         | 22, 24-25                                                 |
|     |       |        | Discharge, Nose, Red                                  | 0                                                         |
|     |       |        | General observation, No Abnormality Detected          | 1-2, 6, 7-8, 9, 10-13, 14-16, 17, 19-20, 21-23, 24-27, 28 |
| M   | III   | 665743 | Discharge, Eye bilateral, Red                         | 3-5, 18                                                   |
|     |       |        | Discharge, Nose, Red                                  | 3                                                         |
|     |       |        | Discharge, Eye right, Red                             | 0                                                         |
|     |       |        | General observation, No Abnormality Detected          | 0, 9, 10-13, 14-16                                        |
| M   | III   | 665744 | Discharge, Eye bilateral, Red                         | 2, 3-4, 7-8, 19, 23, 24-25                                |
|     |       |        | Discharge, Eye right, Red                             | 1, 5-6                                                    |
|     |       |        | Wound, Superficial, Dorsal Body, out of the test area | 21-23, 24-27, 28                                          |
|     |       |        | Wound, Superficial, Shoulder, Bilateral               | 20, 21-23, 24-27, 28                                      |
| M   | III   | 665745 | Wound, Superficial, Shoulder, Right                   | 17-19                                                     |
|     |       |        | Wound, Superficial, Neck                              | 3                                                         |
|     |       |        | General observation, No Abnormality Detected          | 1-2, 5, 7, 10, 13, 15, 19, 27, 28                         |
|     |       |        | Discharge, Eye bilateral, Red                         | 4, 6, 8, 11-12, 14, 16, 17-18, 21-23                      |
| M   | III   | 665746 | Discharge, Eye right, Red                             | 0, 3, 9, 20, 24-26                                        |
|     |       |        | Swollen Observations, Face                            | 14                                                        |
|     |       |        | General observation, No Abnormality Detected          | 1, 5, 7, 9, 10-13, 14-16, 17-20, 22-23, 24-26             |
|     |       |        | Discharge, Eye bilateral, Red                         | 3-4, 8, 21                                                |
| M   | III   | 665746 | Discharge, Eye right, Red                             | 0, 2, 6                                                   |
|     |       |        | Hair Loss, Forepaw, Left                              | 27, 28                                                    |

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

| Sex | Group | Animal | Observation                                  | Individual Clinical Observations - Post-Dosing   |      |
|-----|-------|--------|----------------------------------------------|--------------------------------------------------|------|
|     |       |        |                                              | Days                                             | Days |
| M   | III   | 665747 | General observation, No Abnormality Detected | 13, 14-15, 17, 22-23, 24-27                      |      |
|     |       |        | Discharge, Eye bilateral, Red                | 0-2, 3-6, 7-9, 10, 16, 18, 20, 28                |      |
|     |       |        | Discharge, Eye right, Red                    | 11-12, 19, 21                                    |      |
| M   | III   | 665748 | General observation, No Abnormality Detected | 3-6, 7, 9, 10, 13, 17, 19-20, 22, 26-27          |      |
|     |       |        | Discharge, Eye bilateral, Red                | 0-2, 8, 11-12, 14, 16, 18, 21, 23, 24-25, 28     |      |
|     |       |        | Discharge, Eye right, Red                    | 15                                               |      |
| M   | III   | 665749 | General observation, No Abnormality Detected | 9, 10, 12-13, 14-16, 17, 19-20, 21-22, 26-27, 28 |      |
|     |       |        | Discharge, Eye bilateral, Red                | 0-2, 3-6, 7-8, 11, 23, 24-25                     |      |
|     |       |        | Discharge, Eye right, Red                    | 18                                               |      |
| M   | III   | 665750 | General observation, No Abnormality Detected | 0-2, 3-5, 7, 9, 10-11, 14, 16, 17, 20, 23, 28    |      |
|     |       |        | Discharge, Eye bilateral, Red                | 6, 8, 12, 15, 18-19, 21-22, 24-27                |      |
|     |       |        | Discharge, Eye left, Red                     | 13                                               |      |
| M   | III   | 665751 | General observation, No Abnormality Detected | 2, 4-6, 9, 10-13, 14, 16, 17-19, 23, 24-27, 28   |      |
|     |       |        | Discharge, Eye bilateral, Red                | 3, 7-8, 15, 21-22                                |      |
|     |       |        | Discharge, Eye right, Red                    | 0-1, 20                                          |      |

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|     |              | Individual Clinical Observations - Post-Dosing     |                                                       |
|-----|--------------|----------------------------------------------------|-------------------------------------------------------|
| Sex | Group Animal | Observation                                        | Days                                                  |
| M   | V 665752     | General observation, No Abnormality Detected       | 0, 5-6, 9, 10-11, 14, 16, 17, 19-20, 21-22, 25        |
|     |              | Discharge, Eye bilateral, Red                      | 3-4, 8, 12-13, 15, 18, 23, 24, 26-27, 28              |
|     |              | Discharge, Eye right, Red                          | 1-2, 7                                                |
| M   | V 665753     | General observation, No Abnormality Detected       | 2, 7, 9, 10-11, 13, 14-16, 17, 20, 21, 28             |
|     |              | Discharge, Eye bilateral, Red                      | 1, 3-6, 8, 12, 18-19, 22-23, 24-27                    |
|     |              | Discharge, Eye left, Red                           | 0                                                     |
| M   | V 665754     | General observation, No Abnormality Detected       | 2, 8, 10-12, 14, 16, 19, 22, 25-27                    |
|     |              | Discharge, Eye bilateral, Red                      | 1, 3-6, 7, 9, 13, 15, 18, 20, 23, 24, 28              |
|     |              | Discharge, Eye left, Red                           | 21                                                    |
|     |              | Discharge, Eye right, Red                          | 17                                                    |
|     |              | Swollen Observations, Face                         | 0                                                     |
| M   | V 665755     | General observation, No Abnormality Detected       | 3, 10                                                 |
|     |              | Discharge, Eye bilateral, Red                      | 0-2, 6, 7-8, 9, 11-13, 14-16, 17-20, 21-23, 24-27, 28 |
|     |              | Discharge, Eye right, Red                          | 4-5                                                   |
| M   | V 665756     | General observation, No Abnormality Detected       | 0, 2, 3, 7                                            |
|     |              | Eye Observations, Dark, Right                      | 4-6                                                   |
|     |              | Discharge, Eye bilateral, Red                      | 16, 21-22, 26                                         |
|     |              | Discharge, Eye left, Red                           | 1                                                     |
|     |              | Hair Loss, Forepaw, Left                           | 13, 14-16, 17-20, 21-23, 24-27, 28                    |
|     |              | Wound, Superficial, Dorsal Body, outside test area | 25-27, 28                                             |
|     |              | Wound, Superficial, Forepaw, Left                  | 8, 9, 10-12                                           |
|     |              | Wound, Superficial, Shoulder, Bilateral            | 20, 21-23, 24-27, 28                                  |
|     |              | Wound, Superficial, Shoulder, Left                 | 14-16                                                 |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|     |       |        | Individual Clinical Observations - Post-Dosing |                                                       |
|-----|-------|--------|------------------------------------------------|-------------------------------------------------------|
| Sex | Group | Animal | Observation                                    | Days                                                  |
| M   | V     | 665757 | General observation, No Abnormality Detected   | 1-2, 3, 7-8, 10, 13, 14, 20, 23, 24-26, 28            |
|     |       |        | Discharge, Eye bilateral, Red                  | 0, 5-6, 11-12, 15-16, 17, 19, 21-22, 27               |
|     |       |        | Discharge, Eye right, Red                      | 9, 18                                                 |
|     |       |        | Swollen Observations, Face                     | 4                                                     |
| M   | V     | 665758 | General observation, No Abnormality Detected   | 2, 8, 11-12, 14-16, 17, 19-20, 22-23, 27, 28          |
|     |       |        | Discharge, Eye bilateral, Red                  | 3-6, 7, 9, 10, 13, 18, 21, 24-26                      |
|     |       |        | Discharge, Eye right, Red                      | 0-1                                                   |
| M   | V     | 665759 | General observation, No Abnormality Detected   | 0-2, 4-6, 7-9, 10-13, 14-16, 17-18, 20, 21, 24-27, 28 |
|     |       |        | Discharge, Eye bilateral, Red                  | 19, 22-23                                             |
|     |       |        | Discharge, Nose, Red                           | 3                                                     |
| M   | V     | 665760 | General observation, No Abnormality Detected   | 0-2, 3-6, 7-9, 10-13, 14-16, 17-20, 21, 23, 24-27, 28 |
|     |       |        | Discharge, Eye bilateral, Red                  | 22                                                    |
| M   | V     | 665761 | General observation, No Abnormality Detected   | 2, 3-4, 7-9, 10-13, 14-16, 18-20, 21-23, 24-27, 28    |
|     |       |        | Discharge, Eye bilateral, Red                  | 0-1, 5-6, 17                                          |

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|     |       |        | Individual Clinical Observations - Post-Dosing |                                                           |
|-----|-------|--------|------------------------------------------------|-----------------------------------------------------------|
| Sex | Group | Animal | Observation                                    | Days                                                      |
| M   | VII   | 665762 | General observation, No Abnormality Detected   | 1-2, 3-6                                                  |
|     |       |        | Discharge, Eye bilateral, Red                  | 0, 13, 18, 22                                             |
|     |       |        | Discharge, Eye right, Red                      | 20                                                        |
|     |       |        | Hair Loss, Forepaw, Bilateral                  | 7-8, 9, 10-13, 14-16, 17-20, 21-23, 24-27, 28             |
|     |       |        | Wound, Superficial, Forelimb, Right            | 7-8, 9, 10                                                |
| M   | VII   | 665763 | Wound, Superficial, Forepaw, Left              | 7-8, 9, 10                                                |
|     |       |        | General observation, No Abnormality Detected   | 1, 5-6, 7-8, 9, 11, 14-16, 17-18, 20, 21-22, 24-27, 28    |
|     |       |        | Discharge, Eye bilateral, Red                  | 0, 3-4, 12-13, 19                                         |
|     |       |        | Discharge, Eye right, Red                      | 2, 10, 23                                                 |
|     |       |        | General observation, No Abnormality Detected   | 9, 10, 14-15, 17-20, 21, 23, 24, 27, 28                   |
| M   | VII   | 665764 | Discharge, Eye bilateral, Red                  | 0-2, 3-6, 7-8, 11-12, 16, 22, 26                          |
|     |       |        | Discharge, Eye left, Red                       | 13                                                        |
|     |       |        | Discharge, Eye right, Red                      | 25                                                        |
|     |       |        | General observation, No Abnormality Detected   | 2, 3-6, 9, 10-11, 13, 14, 16, 17-20, 21-23, 24-25, 27, 28 |
|     |       |        | Discharge, Eye bilateral, Red                  | 0-1, 7-8, 12, 15, 26                                      |
| M   | VII   | 665765 | General observation, No Abnormality Detected   | 7, 9, 24                                                  |
|     |       |        | Discharge, Eye bilateral, Red                  | 0-2, 3-6, 8, 13, 14, 17-20, 25-27, 28                     |
|     |       |        | Discharge, Nose, Red                           | 6                                                         |
|     |       |        | Discharge, Eye left, Red                       | 12                                                        |
|     |       |        | Discharge, Eye right, Red                      | 11                                                        |
| M   | VII   | 665766 | Hair Loss, Forepaw, Bilateral                  | 10-13, 14-16, 17-20, 21-23                                |

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|     |       |        | Individual Clinical Observations - Post-Dosing         |                                                    |
|-----|-------|--------|--------------------------------------------------------|----------------------------------------------------|
| Sex | Group | Animal | Observation                                            | Days                                               |
| M   | VII   | 665767 | General observation, No Abnormality Detected           | 7, 10-13, 14-15, 17-20, 21-22, 24-26               |
|     |       |        | Discharge, Eye bilateral, Red                          | 0-2, 3-6, 8-9, 16, 23, 27                          |
|     |       |        | Discharge, Eye right, Red                              | 28                                                 |
| M   | VII   | 665768 | General observation, No Abnormality Detected           | 0-2, 3-5, 7, 10, 14-15, 17-18, 20, 21, 23          |
|     |       |        | Discharge, Eye bilateral, Red                          | 6, 8-9, 11-13, 19, 22, 26-27, 28                   |
|     |       |        | Discharge, Eye right, Red                              | 16, 24-25                                          |
| M   | VII   | 665769 | General observation, No Abnormality Detected           | 3-4, 7-8, 11                                       |
|     |       |        | Discharge, Eye bilateral, Red                          | 0, 5-6, 9, 12                                      |
|     |       |        | Discharge, Eye left, Red                               | 1                                                  |
|     |       |        | Discharge, Eye right, Red                              | 10, 13, 14                                         |
|     |       |        | Wound, Superficial, Dorsal Body, outside the test area | 14-16, 17-20, 21-23, 24-27, 28                     |
|     |       |        | Wound, Superficial, Shoulder, Left                     | 19                                                 |
|     |       |        | Wound, Superficial, Neck                               | 1-2                                                |
|     |       |        | Swollen Observations, Face                             | 0-1                                                |
| M   | VII   | 665770 | General observation, No Abnormality Detected           | 13, 14-15, 17, 20, 21-23, 24, 26-27, 28            |
|     |       |        | Discharge, Eye bilateral, Red                          | 0-2, 5-6, 7, 9, 11-12, 18-19                       |
|     |       |        | Discharge, Eye left, Red                               | 25                                                 |
|     |       |        | Discharge, Eye right, Red                              | 3-4, 8, 10, 16                                     |
|     |       |        | Swollen Observations, Face                             | 0-1                                                |
| M   | VII   | 665771 | General observation, No Abnormality Detected           | 0, 3, 8-9, 12, 14, 16, 17-20, 21-23, 24, 26-27, 28 |
|     |       |        | Discharge, Eye bilateral, Red                          | 1-2, 5-6, 10-11, 13, 15, 25                        |
|     |       |        | Discharge, Eye left, Red                               | 4                                                  |
|     |       |        | Discharge, Eye right, Red                              | 7                                                  |

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## **APPENDIX F**

### **Individual Edema and Erythema Scores**

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## INDIVIDUAL EDEMA AND ERYTHEMA SCORES

### EXPLANATORY NOTES

#### DRAIZE<sup>a</sup> SCALE FOR SCORING SKIN IRRITATION

| Evaluation of Skin Reactions                                                        | Score        |
|-------------------------------------------------------------------------------------|--------------|
| <b>Erythema and eschar formation:</b>                                               |              |
| No erythema .....                                                                   | 0            |
| Very slight erythema (barely perceptible) .....                                     | 1 (Slight)   |
| Well-defined erythema .....                                                         | 2 (Mild)     |
| Moderate to severe erythema .....                                                   | 3 (Moderate) |
| Severe erythema (beet redness) to slight eschar formation (injuries in depth) ..... | 4 (Severe)   |
| <b>Edema formation:</b>                                                             |              |
| No edema .....                                                                      | 0            |
| Very slight edema (barely perceptible) .....                                        | 1 (Slight)   |
| Slight edema (edges of area well defined by definite raising) .....                 | 2 (Mild)     |
| Moderate edema (raised approximately 1.0 mm) .....                                  | 3 (Moderate) |
| Severe edema (raised more than 1.0 mm extending beyond the area of exposure) ..     | 4 (Severe)   |

- a Draize, J. H., "Dermal Toxicity." Appraisal of the Safety of Chemicals in Foods, Drugs and Cosmetics. The Editorial Committee of the Association of Food and Drug Officials of the United States, Austin, Texas, 1959, pp. 46-59.

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|                    |       | Individual Edema and Erythema Scores |       |       |       |       |       |       |       |        |        |        |
|--------------------|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Edema              | Edema | Edema                                | Edema | Edema | Edema | Edema | Edema | Edema | Edema | Edema  | Edema  | Edema  |
| Day 0              | Day 1 | Day 2                                | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 | Day 8 | Day 9 | Day 10 | Day 11 | Day 11 |
| Male, I 0 mg/kg    |       |                                      |       |       |       |       |       |       |       |        |        |        |
| 665732             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665733             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665734             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665735             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665736             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665737             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665738             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665739             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665740             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665741             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| Male, III 10 mg/kg |       |                                      |       |       |       |       |       |       |       |        |        |        |
| 665742             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665743             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665744             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665745             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665746             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665747             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665748             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665749             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665750             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665751             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| Male, V 100 mg/kg  |       |                                      |       |       |       |       |       |       |       |        |        |        |
| 665752             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665753             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665754             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665755             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665756             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665757             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665758             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665759             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665760             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |
| 665761             | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      |

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|                      |       | Individual Edema and Erythema Scores |       |       |       |       |       |       |       |        |        |       |
|----------------------|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| Edema                | Edema | Edema                                | Edema | Edema | Edema | Edema | Edema | Edema | Edema | Edema  | Edema  | Edema |
| Day 0                | Day 1 | Day 2                                | Day 3 | Day 4 | Day 5 | Day 6 | Day 7 | Day 8 | Day 9 | Day 10 | Day 11 |       |
| Male, VII 1000 mg/kg |       |                                      |       |       |       |       |       |       |       |        |        |       |
| 665762               | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0     |
| 665763               | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0     |
| 665764               | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0     |
| 665765               | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0     |
| 665766               | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0     |
| 665767               | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0     |
| 665768               | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0     |
| 665769               | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0     |
| 665770               | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0     |
| 665771               | 0     | 0                                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0     |

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|                      |        | Individual Edema and Erythema Scores |        |        |        |        |        |        |        |        |        |       |       |
|----------------------|--------|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| Edema                | Edema  | Edema                                | Edema  | Edema  | Edema  | Edema  | Edema  | Edema  | Edema  | Edema  | Edema  | Edema | Edema |
| Day 12               | Day 13 | Day 14                               | Day 15 | Day 16 | Day 17 | Day 18 | Day 19 | Day 20 | Day 21 | Day 22 | Day 23 |       |       |
| Male, VII 1000 mg/kg |        |                                      |        |        |        |        |        |        |        |        |        |       |       |
| 665762               | 0      | 0                                    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     |
| 665763               | 0      | 0                                    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     |
| 665764               | 0      | 0                                    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     |
| 665765               | 0      | 0                                    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     |
| 665766               | 0      | 0                                    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     |
| 665767               | 0      | 0                                    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     |
| 665768               | 0      | 0                                    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     |
| 665769               | 0      | 0                                    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     |
| 665770               | 0      | 0                                    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     |
| 665771               | 0      | 0                                    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0     | 0     |

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Edema and Erythema Scores

|                    | Edema  | Edema  | Edema  | Edema  | Edema  |
|--------------------|--------|--------|--------|--------|--------|
|                    | Day 24 | Day 25 | Day 26 | Day 27 | Day 28 |
| Male, I 0 mg/kg    |        |        |        |        |        |
| 665732             | 0      | 0      | 0      | 0      | 0      |
| 665733             | 0      | 0      | 0      | 0      | 0      |
| 665734             | 0      | 0      | 0      | 0      | 0      |
| 665735             | 0      | 0      | 0      | 0      | 0      |
| 665736             | 0      | 0      | 0      | 0      | 0      |
| 665737             | 0      | 0      | 0      | 0      | 0      |
| 665738             | 0      | 0      | 0      | 0      | 0      |
| 665739             | 0      | 0      | 0      | 0      | 0      |
| 665740             | 0      | 0      | 0      | 0      | 0      |
| 665741             | 0      | 0      | 0      | 0      | 0      |
| Male, III 10 mg/kg |        |        |        |        |        |
| 665742             | 0      | 0      | 0      | 0      | 0      |
| 665743             | 0      | 0      | 0      | 0      | 0      |
| 665744             | 0      | 0      | 0      | 0      | 0      |
| 665745             | 0      | 0      | 0      | 0      | 0      |
| 665746             | 0      | 0      | 0      | 0      | 0      |
| 665747             | 0      | 0      | 0      | 0      | 0      |
| 665748             | 0      | 0      | 0      | 0      | 0      |
| 665749             | 0      | 0      | 0      | 0      | 0      |
| 665750             | 0      | 0      | 0      | 0      | 0      |
| 665751             | 0      | 0      | 0      | 0      | 0      |
| Male, V 100 mg/kg  |        |        |        |        |        |
| 665752             | 0      | 0      | 0      | 0      | 0      |
| 665753             | 0      | 0      | 0      | 0      | 0      |
| 665754             | 0      | 0      | 0      | 0      | 0      |
| 665755             | 0      | 0      | 0      | 0      | 0      |
| 665756             | 0      | 0      | 0      | 0      | 0      |
| 665757             | 0      | 0      | 0      | 0      | 0      |
| 665758             | 0      | 0      | 0      | 0      | 0      |
| 665759             | 0      | 0      | 0      | 0      | 0      |
| 665760             | 0      | 0      | 0      | 0      | 0      |
| 665761             | 0      | 0      | 0      | 0      | 0      |

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H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Edema and Erythema Scores

| Edema                | Edema  | Edema  | Edema  | Edema  |
|----------------------|--------|--------|--------|--------|
| Day 24               | Day 25 | Day 26 | Day 27 | Day 28 |
| Male, VII 1000 mg/kg |        |        |        |        |
| 665762               | 0      | 0      | 0      | 0      |
| 665763               | 0      | 0      | 0      | 0      |
| 665764               | 0      | 0      | 0      | 0      |
| 665765               | 0      | 0      | 0      | 0      |
| 665766               | 0      | 0      | 0      | 0      |
| 665767               | 0      | 0      | 0      | 0      |
| 665768               | 0      | 0      | 0      | 0      |
| 665769               | 0      | 0      | 0      | 0      |
| 665770               | 0      | 0      | 0      | 0      |
| 665771               | 0      | 0      | 0      | 0      |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|                    |   | Individual Edema and Erythema Scores |          |          |          |          |          |          |          |          |          |          |
|--------------------|---|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Erythema           |   | Erythema                             | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema |
| Day 0              |   | Day 1                                | Day 2    | Day 3    | Day 4    | Day 5    | Day 6    | Day 7    | Day 8    | Day 9    | Day 10   | Day 11   |
| Male, I 0 mg/kg    |   |                                      |          |          |          |          |          |          |          |          |          |          |
| 665732             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665733             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665734             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665735             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665736             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665737             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665738             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665739             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665740             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665741             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| Male, III 10 mg/kg |   |                                      |          |          |          |          |          |          |          |          |          |          |
| 665742             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665743             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665744             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665745             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665746             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665747             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665748             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665749             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665750             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665751             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| Male, V 100 mg/kg  |   |                                      |          |          |          |          |          |          |          |          |          |          |
| 665752             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665753             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665754             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665755             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665756             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665757             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665758             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665759             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665760             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665761             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|                      |       | Individual Edema and Erythema Scores |          |          |          |          |          |          |          |          |          |          |
|----------------------|-------|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Erythema             |       | Erythema                             | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema |
| Day 0                | Day 1 | Day 2                                | Day 3    | Day 4    | Day 5    | Day 6    | Day 7    | Day 8    | Day 9    | Day 10   | Day 11   |          |
| Male, VII 1000 mg/kg |       |                                      |          |          |          |          |          |          |          |          |          |          |
| 665762               | 0     | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665763               | 0     | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665764               | 0     | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665765               | 0     | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665766               | 0     | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665767               | 0     | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665768               | 0     | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665769               | 0     | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665770               | 0     | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665771               | 0     | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|                    |   | Individual Edema and Erythema Scores |          |          |          |          |          |          |          |          |          |          |          |
|--------------------|---|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                    |   | Erythema                             | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema |
|                    |   | Day 12                               | Day 13   | Day 14   | Day 15   | Day 16   | Day 17   | Day 18   | Day 19   | Day 20   | Day 21   | Day 22   | Day 23   |
| Male, I 0 mg/kg    |   |                                      |          |          |          |          |          |          |          |          |          |          |          |
| 665732             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665733             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665734             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665735             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665736             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665737             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665738             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665739             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665740             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665741             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| Male, III 10 mg/kg |   |                                      |          |          |          |          |          |          |          |          |          |          |          |
| 665742             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665743             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665744             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 1        | 0        | 0        | 0        | 0        | 0        |
| 665745             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665746             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665747             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665748             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665749             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665750             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665751             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| Male, V 100 mg/kg  |   |                                      |          |          |          |          |          |          |          |          |          |          |          |
| 665752             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665753             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665754             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665755             | 0 | 0                                    | 0        | 0        | 0        | 1        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665756             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665757             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665758             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665759             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665760             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665761             | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

|                      |   | Individual Edema and Erythema Scores |          |          |          |          |          |          |          |          |          |          |          |
|----------------------|---|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      |   | Erythema                             | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema | Erythema |
|                      |   | Day 12                               | Day 13   | Day 14   | Day 15   | Day 16   | Day 17   | Day 18   | Day 19   | Day 20   | Day 21   | Day 22   | Day 23   |
| Male, VII 1000 mg/kg |   |                                      |          |          |          |          |          |          |          |          |          |          |          |
| 665762               | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665763               | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665764               | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665765               | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665766               | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665767               | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665768               | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665769               | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665770               | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
| 665771               | 0 | 0                                    | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Edema and Erythema Scores

Erythema Erythema Erythema Erythema Erythema

Day 24 Day 25 Day 26 Day 27 Day 28

Male, I 0 mg/kg

|        |   |   |   |   |   |
|--------|---|---|---|---|---|
| 665732 | 0 | 0 | 0 | 0 | 0 |
| 665733 | 0 | 0 | 0 | 0 | 0 |
| 665734 | 0 | 0 | 0 | 0 | 0 |
| 665735 | 0 | 0 | 0 | 0 | 0 |
| 665736 | 0 | 0 | 0 | 0 | 0 |
| 665737 | 0 | 0 | 0 | 0 | 0 |
| 665738 | 0 | 0 | 0 | 0 | 0 |
| 665739 | 0 | 0 | 0 | 0 | 0 |
| 665740 | 0 | 0 | 0 | 0 | 0 |
| 665741 | 0 | 0 | 0 | 0 | 0 |

Male, III 10 mg/kg

|        |   |   |   |   |   |
|--------|---|---|---|---|---|
| 665742 | 0 | 0 | 0 | 0 | 0 |
| 665743 | 0 | 0 | 0 | 0 | 0 |
| 665744 | 0 | 0 | 0 | 0 | 0 |
| 665745 | 0 | 0 | 0 | 0 | 0 |
| 665746 | 0 | 0 | 0 | 0 | 0 |
| 665747 | 0 | 0 | 0 | 0 | 0 |
| 665748 | 0 | 0 | 0 | 0 | 0 |
| 665749 | 0 | 0 | 0 | 0 | 0 |
| 665750 | 0 | 0 | 0 | 0 | 0 |
| 665751 | 0 | 0 | 0 | 0 | 0 |

Male, V 100 mg/kg

|        |   |   |   |   |   |
|--------|---|---|---|---|---|
| 665752 | 0 | 0 | 0 | 0 | 0 |
| 665753 | 0 | 0 | 0 | 0 | 0 |
| 665754 | 0 | 0 | 0 | 0 | 0 |
| 665755 | 0 | 0 | 0 | 0 | 0 |
| 665756 | 0 | 0 | 0 | 0 | 0 |
| 665757 | 0 | 0 | 0 | 0 | 0 |
| 665758 | 0 | 0 | 0 | 0 | 0 |
| 665759 | 0 | 0 | 0 | 0 | 0 |
| 665760 | 0 | 0 | 0 | 0 | 0 |
| 665761 | 0 | 0 | 0 | 0 | 0 |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Edema and Erythema Scores

Erythema Erythema Erythema Erythema Erythema

Day 24 Day 25 Day 26 Day 27 Day 28

Male, VII 1000 mg/kg

|        |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|
| 665762 | 0 | 0 | 0 | 0 | 0 | 0 |
| 665763 | 0 | 0 | 0 | 0 | 0 | 0 |
| 665764 | 0 | 0 | 0 | 0 | 0 | 0 |
| 665765 | 0 | 0 | 0 | 0 | 0 | 0 |
| 665766 | 0 | 0 | 0 | 0 | 0 | 0 |
| 665767 | 0 | 0 | 0 | 0 | 0 | 0 |
| 665768 | 0 | 0 | 0 | 1 | 0 | 0 |
| 665769 | 0 | 0 | 0 | 0 | 0 | 0 |
| 665770 | 0 | 0 | 0 | 0 | 0 | 0 |
| 665771 | 0 | 0 | 0 | 0 | 0 | 0 |

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## **APPENDIX G**

### **Individual Blood Fluorine Levels**

Company Sanitized. Does not contain TSCA CBI

BLOOD FLUORINE LEVELS  
TEST DAY 21

| <u>Animal<br/>Number</u> | <u>Group</u> | <u>Dosage<br/>(mg/kg/day)</u> | <u>Fluorine<br/>(ppm)</u> |
|--------------------------|--------------|-------------------------------|---------------------------|
| 665732                   | I            | 0                             | <0.5 <sup>a</sup>         |
| 665733                   | I            | 0                             | <0.5                      |
| 665734                   | I            | 0                             | <0.5                      |
| 665735                   | I            | 0                             | <0.5                      |
| 665736                   | I            | 0                             | <0.5                      |
| 665742                   | III          | 10                            | 5.96                      |
| 665743                   | III          | 10                            | <0.5                      |
| 665744                   | III          | 10                            | 0.97                      |
| 665745                   | III          | 10                            | 0.52                      |
| 665746                   | III          | 10                            | <0.5                      |
| 665752                   | V            | 100                           | 0.78                      |
| 665753                   | V            | 100                           | 0.57                      |
| 665754                   | V            | 100                           | 0.54                      |
| 665755                   | V            | 100                           | 0.66                      |
| 665756                   | V            | 100                           | 0.6                       |
| 665762                   | VII          | 1000                          | 1.24                      |
| 665763                   | VII          | 1000                          | <0.5                      |
| 665764                   | VII          | 1000                          | <0.5                      |
| 665765                   | VII          | 1000                          | 1.22                      |
| 665766                   | VII          | 1000                          | 1.38                      |

a <0.5 is below the limit of quantification

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## **APPENDIX H**

### **Individual Animal Clinical Pathology Data**

**Company Sanitized. Does not contain TSCA CBI**

## INDIVIDUAL ANIMAL CLINICAL PATHOLOGY DATA

### EXPLANATORY NOTES

#### ABBREVIATIONS:

##### General:

ADEQ - adequate  
NT - not taken or not performed  
OK - sample condition OK for testing  
QNS - quantity not sufficient for testing  
RNV - result not valid  
< - less than

##### Individual Hematology Values:

COND - sample condition  
RBC - red blood cell count  
HGB - hemoglobin  
HCT - hematocrit  
MCV - mean corpuscular volume  
MCH - mean corpuscular hemoglobin  
MCHC - mean corpuscular hemoglobin concentration  
RDW - red cell distribution width  
ARET - absolute reticulocyte count  
PLT - platelet count  
WBC - white blood cell count  
ANEU - absolute neutrophil (all forms)  
ALYM - absolute lymphocyte  
AMON - absolute monocyte  
AEOS - absolute eosinophil  
ABAS - absolute basophil  
ALUC - absolute large unstained cell

##### Individual Red Blood Cell Morphology Values:

NORM - Normal  
ANIS - anisocytosis  
MIC - microcytes  
MAC - macrocytes  
POLY - polychromasia  
HYPO - hypochromasia  
ECHI - echinocytes  
ACAN - acanthocytes  
TARG - Target cells  
RX - rouleaux  
HJB - Howell-Jolly body  
- - not observed or not examined; see whole blood sample condition

##### Individual White Blood Cell / Platelet Morphology Values:

NORM - Normal  
SM - Smudge white blood cells  
TOX - toxic neutrophils  
DB - Döhle bodies  
VC - vacuolated cytoplasm  
BC - basophilic cytoplasm  
PCE - platelet clumps / estimate  
GP - giant platelets  
BP - bizarre platelets  
- - not observed or not examined; see whole blood sample condition

Company Sanitized. Does not contain TSCA CBI

## INDIVIDUAL ANIMAL CLINICAL PATHOLOGY DATA

### EXPLANATORY NOTES (Continued)

#### ABBREVIATIONS: (Continued)

##### Individual Clinical Chemistry Values:

SHEM - serum hemolysis  
SLIP - serum lipemia  
SICT - serum icterus  
AST - aspartate aminotransferase  
ALT - alanine aminotransferase  
SDH - sorbitol dehydrogenase  
ALKP - alkaline phosphatase  
BILI - total bilirubin  
BUN - urea nitrogen  
CREA - creatinine  
CHOL - cholesterol  
TRIG - triglycerides  
GLUC - glucose  
TP - total protein  
ALB - albumin  
GLOB - globulin  
CALC - calcium  
IPHS - inorganic phosphorous  
NA - sodium  
K - potassium  
CL - chloride  
PHEM - plasma hemolysis from blood sample for fluoride determination  
PLIP - plasma lipemia from blood sample for fluoride determination  
PICT - plasma icterus from blood sample for fluoride determination  
PFLU - plasma fluoride

##### Individual Urinalysis Values:

QUAL - quality (modifies color)  
COL - color  
CLAR - clarity  
VOL - volume  
UOSM - urine osmolality  
pH - the logarithm of the reciprocal of the hydrogen ion concentration  
UGLU - urine glucose  
KET - ketone  
UBIL - urine bilirubin  
BLD - blood  
URO - urobilinogen  
UFLU - urine fluoride  
UMTP - urine protein

##### Individual Urine Microscopic Examination Values:

EPIT - epithelial cells  
UWBC - urine white blood cells  
URBC - urine red blood cells  
NCRY - normal crystals  
MICR - microorganisms  
SPER - sperm

## INDIVIDUAL ANIMAL CLINICAL PATHOLOGY DATA

### EXPLANATORY NOTES (Continued)

NOTES:

When individual animal data are not reported, it may be due to one of the following reasons or other reasons, all of which are explained in the study records:

the sample was clotted (CLOT)  
there was insufficient sample for testing (QNS)  
a valid result could not be obtained (RNV)  
the sample was not suitable for testing  
the animal died prior to sample collection  
no sample was available for testing (NSR)

When an individual observation was recorded as being less than a certain value, calculations were performed on half the recorded value. For example, if bilirubin was reported as <0.1, 0.05 was used for any calculations performed with that bilirubin data.

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

| Individual Hematology Values        |      |                             |             |          |           |           |              |          |                              |                             |                             |  |
|-------------------------------------|------|-----------------------------|-------------|----------|-----------|-----------|--------------|----------|------------------------------|-----------------------------|-----------------------------|--|
| Animal Number                       | COND | RBC<br>x10 <sup>6</sup> /μL | HGB<br>g/dL | HCT<br>% | MCV<br>fL | MCH<br>pg | MCHC<br>g/dL | RDW<br>% | ARET<br>x10 <sup>3</sup> /μL | PLT<br>x10 <sup>3</sup> /μL | WBC<br>x10 <sup>3</sup> /μL |  |
| Male, Group I - 0 mg/kg - Day 29    |      |                             |             |          |           |           |              |          |                              |                             |                             |  |
| 665732                              | OK   | 8.15                        | 16.2        | 47.7     | 58.5      | 19.9      | 34.0         | 11.4     | 209.3                        | 1222                        | 9.62                        |  |
| 665733                              | OK   | 7.86                        | 16.1        | 47.7     | 60.7      | 20.4      | 33.7         | 10.7     | 154.7                        | 1344                        | 8.99                        |  |
| 665734                              | OK   | 8.00                        | 15.4        | 46.0     | 57.5      | 19.3      | 33.5         | 10.9     | 221.5                        | 1292                        | 15.60                       |  |
| 665735                              | OK   | 7.92                        | 15.7        | 46.7     | 59.0      | 19.8      | 33.5         | 12.0     | 242.3                        | RNV                         | 12.97                       |  |
| 665736                              | OK   | 8.38                        | 17.0        | 50.4     | 60.2      | 20.3      | 33.7         | 11.1     | 258.3                        | 1039                        | 11.79                       |  |
| 665737                              | OK   | 8.88                        | 16.8        | 49.7     | 56.0      | 19.0      | 33.8         | 10.7     | 143.9                        | 1264                        | 19.56                       |  |
| 665738                              | OK   | 8.34                        | 15.7        | 46.6     | 55.8      | 18.8      | 33.7         | 11.4     | 131.4                        | 1141                        | 9.73                        |  |
| 665739                              | OK   | 8.63                        | 17.2        | 51.3     | 59.4      | 19.9      | 33.6         | 10.1     | 149.2                        | 991                         | 10.46                       |  |
| 665740                              | OK   | 8.35                        | 16.1        | 47.0     | 56.3      | 19.3      | 34.2         | 10.8     | 130.3                        | 1212                        | 11.06                       |  |
| 665741                              | OK   | 8.69                        | 16.8        | 49.0     | 56.4      | 19.3      | 34.2         | 10.6     | 133.1                        | 1172                        | 10.68                       |  |
| Male, Group III - 10 mg/kg - Day 29 |      |                             |             |          |           |           |              |          |                              |                             |                             |  |
| 665742                              | OK   | 7.79                        | 15.4        | 45.7     | 58.6      | 19.8      | 33.8         | 11.7     | 208.6                        | 1104                        | 15.71                       |  |
| 665743                              | OK   | 7.62                        | 15.0        | 45.3     | 59.4      | 19.7      | 33.2         | 11.2     | 196.1                        | 1338                        | 10.20                       |  |
| 665744                              | OK   | 8.07                        | 16.4        | 46.9     | 58.2      | 20.4      | 35.0         | 10.7     | 209.1                        | 1183                        | 10.55                       |  |
| 665745                              | OK   | 7.42                        | 15.0        | 44.9     | 60.5      | 20.2      | 33.4         | 11.3     | 263.1                        | 1284                        | 10.11                       |  |
| 665746                              | OK   | 7.97                        | 16.2        | 48.0     | 60.2      | 20.3      | 33.7         | 10.9     | 181.2                        | RNV                         | 8.37                        |  |
| 665747                              | OK   | 7.93                        | 16.0        | 46.3     | 58.4      | 20.2      | 34.7         | 11.7     | 215.2                        | RNV                         | 14.84                       |  |
| 665748                              | OK   | 8.45                        | 16.3        | 47.5     | 56.2      | 19.3      | 34.3         | 11.0     | 144.4                        | 1266                        | 7.96                        |  |
| 665749                              | OK   | 8.44                        | 16.0        | 47.1     | 55.8      | 19.0      | 34.0         | 10.5     | 127.2                        | 1445                        | 15.66                       |  |
| 665750                              | OK   | 8.26                        | 16.5        | 48.1     | 58.3      | 19.9      | 34.2         | 11.2     | 141.4                        | 1436                        | 14.76                       |  |
| 665751                              | OK   | 7.56                        | 15.8        | 46.5     | 61.5      | 20.9      | 34.0         | 10.8     | 218.6                        | 1162                        | 13.55                       |  |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

| Animal<br>Number                      | COND | RBC<br>x10 <sup>6</sup> /μL | HGB<br>g/dL | HCT<br>% | Individual Hematology Values |           |              |          |                              |      | PLT<br>x10 <sup>3</sup> /μL | WBC<br>x10 <sup>3</sup> /μL |
|---------------------------------------|------|-----------------------------|-------------|----------|------------------------------|-----------|--------------|----------|------------------------------|------|-----------------------------|-----------------------------|
|                                       |      |                             |             |          | MCV<br>fL                    | MCH<br>pg | MCHC<br>g/dL | RDW<br>% | ARET<br>x10 <sup>3</sup> /μL |      |                             |                             |
| Male, Group V - 100 mg/kg - Day 29    |      |                             |             |          |                              |           |              |          |                              |      |                             |                             |
| 665752                                | OK   | 8.19                        | 16.0        | 48.2     | 58.8                         | 19.6      | 33.3         | 11.2     | 183.5                        | 1253 | 14.64                       |                             |
| 665753                                | OK   | 7.79                        | 14.9        | 45.2     | 58.1                         | 19.1      | 32.9         | 11.5     | 199.4                        | 1369 | 11.19                       |                             |
| 665754                                | OK   | 7.66                        | 15.1        | 43.5     | 56.8                         | 19.7      | 34.6         | 11.0     | 253.9                        | 1709 | 15.06                       |                             |
| 665755                                | OK   | 7.95                        | 16.4        | 47.8     | 60.1                         | 20.6      | 34.3         | 11.1     | 190.6                        | 1306 | 15.60                       |                             |
| 665756                                | OK   | 7.42                        | 15.1        | 44.2     | 59.6                         | 20.3      | 34.1         | 11.0     | 240.4                        | 1197 | 11.86                       |                             |
| 665757                                | OK   | 7.84                        | 15.3        | 45.6     | 58.2                         | 19.5      | 33.6         | 10.6     | 152.8                        | 1181 | 12.56                       |                             |
| 665758                                | OK   | 7.57                        | 15.2        | 43.7     | 57.8                         | 20.0      | 34.7         | 11.0     | 145.5                        | 1429 | 8.94                        |                             |
| 665759                                | OK   | 8.28                        | 15.4        | 46.1     | 55.7                         | 18.7      | 33.5         | 10.3     | 79.4                         | 1191 | 14.99                       |                             |
| 665760                                | OK   | 8.49                        | 16.5        | 48.2     | 56.8                         | 19.4      | 34.2         | 10.7     | 175.8                        | 1284 | 11.49                       |                             |
| 665761                                | OK   | 8.35                        | 16.2        | 47.2     | 56.5                         | 19.5      | 34.4         | 10.9     | 105.0                        | 1342 | 12.19                       |                             |
| Male, Group VII - 1000 mg/kg - Day 29 |      |                             |             |          |                              |           |              |          |                              |      |                             |                             |
| 665762                                | OK   | 7.97                        | 15.6        | 46.5     | 58.3                         | 19.6      | 33.7         | 10.7     | 191.0                        | 942  | 12.13                       |                             |
| 665763                                | OK   | 8.37                        | 16.2        | 47.2     | 56.5                         | 19.3      | 34.2         | 10.5     | 189.4                        | 1085 | 12.39                       |                             |
| 665764                                | OK   | 8.23                        | 15.3        | 44.7     | 54.3                         | 18.6      | 34.3         | 11.7     | 169.5                        | 1355 | 10.35                       |                             |
| 665765                                | OK   | 7.80                        | 15.6        | 46.2     | 59.2                         | 20.0      | 33.7         | 11.6     | 262.3                        | 1295 | 17.14                       |                             |
| 665766                                | OK   | 7.66                        | 15.3        | 45.8     | 59.8                         | 19.9      | 33.3         | 11.2     | 215.1                        | 1426 | 16.53                       |                             |
| 665767                                | OK   | 8.23                        | 15.3        | 45.4     | 55.2                         | 18.6      | 33.7         | 11.8     | 180.0                        | 1213 | 17.21                       |                             |
| 665768                                | OK   | 7.57                        | 15.1        | 44.0     | 58.2                         | 19.9      | 34.2         | 10.8     | 161.9                        | RNV  | 16.68                       |                             |
| 665769                                | OK   | 7.98                        | 15.7        | 46.1     | 57.7                         | 19.7      | 34.1         | 10.5     | 165.6                        | 1436 | 13.65                       |                             |
| 665770                                | OK   | 8.08                        | 15.9        | 45.9     | 56.8                         | 19.7      | 34.7         | 11.0     | 128.1                        | RNV  | 15.88                       |                             |
| 665771                                | OK   | 8.24                        | 15.7        | 45.7     | 55.4                         | 19.0      | 34.4         | 11.3     | 188.1                        | 1364 | 14.65                       |                             |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Hematology Values

| Animal<br>Number                    | ANRU<br>x10 <sup>3</sup> /μL | ALYM<br>x10 <sup>3</sup> /μL | AMON<br>x10 <sup>3</sup> /μL | AEOS<br>x10 <sup>3</sup> /μL | ABAS<br>x10 <sup>3</sup> /μL | ALUC<br>x10 <sup>3</sup> /μL |
|-------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Male, Group I - 0 mg/kg - Day 29    |                              |                              |                              |                              |                              |                              |
| 665732                              | 0.83                         | 8.32                         | 0.18                         | 0.15                         | 0.06                         | 0.08                         |
| 665733                              | 1.00                         | 7.42                         | 0.27                         | 0.13                         | 0.06                         | 0.11                         |
| 665734                              | 1.93                         | 12.60                        | 0.46                         | 0.22                         | 0.17                         | 0.23                         |
| 665735                              | 1.65                         | 10.35                        | 0.45                         | 0.19                         | 0.16                         | 0.17                         |
| 665736                              | 1.44                         | 9.84                         | 0.19                         | 0.14                         | 0.10                         | 0.07                         |
| 665737                              | 4.02                         | 14.48                        | 0.44                         | 0.19                         | 0.18                         | 0.24                         |
| 665738                              | 2.09                         | 7.16                         | 0.17                         | 0.12                         | 0.09                         | 0.11                         |
| 665739                              | 0.98                         | 8.66                         | 0.22                         | 0.34                         | 0.09                         | 0.17                         |
| 665740                              | 1.51                         | 8.79                         | 0.39                         | 0.15                         | 0.12                         | 0.10                         |
| 665741                              | 1.51                         | 8.52                         | 0.31                         | 0.08                         | 0.15                         | 0.10                         |
| Male, Group III - 10 mg/kg - Day 29 |                              |                              |                              |                              |                              |                              |
| 665742                              | 1.57                         | 13.24                        | 0.37                         | 0.23                         | 0.15                         | 0.16                         |
| 665743                              | 1.82                         | 7.61                         | 0.30                         | 0.25                         | 0.07                         | 0.13                         |
| 665744                              | 2.59                         | 7.35                         | 0.33                         | 0.10                         | 0.11                         | 0.07                         |
| 665745                              | 0.88                         | 8.59                         | 0.21                         | 0.27                         | 0.08                         | 0.09                         |
| 665746                              | 1.38                         | 6.59                         | 0.17                         | 0.12                         | 0.05                         | 0.06                         |
| 665747                              | 2.19                         | 11.76                        | 0.21                         | 0.43                         | 0.12                         | 0.14                         |
| 665748                              | 0.74                         | 6.59                         | 0.24                         | 0.16                         | 0.09                         | 0.13                         |
| 665749                              | 1.26                         | 13.43                        | 0.28                         | 0.19                         | 0.14                         | 0.34                         |
| 665750                              | 1.95                         | 12.06                        | 0.27                         | 0.22                         | 0.12                         | 0.14                         |
| 665751                              | 1.55                         | 11.24                        | 0.29                         | 0.17                         | 0.12                         | 0.18                         |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Hematology Values

| Animal<br>Number | ANEU<br>x10 <sup>3</sup> /μL | ALYM<br>x10 <sup>3</sup> /μL | AMON<br>x10 <sup>3</sup> /μL | AEOS<br>x10 <sup>3</sup> /μL | ABAS<br>x10 <sup>3</sup> /μL | ALUC<br>x10 <sup>3</sup> /μL |
|------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|

Male, Group V - 100 mg/kg - Day 29

|        |      |       |      |      |      |      |
|--------|------|-------|------|------|------|------|
| 665752 | 1.24 | 12.54 | 0.33 | 0.18 | 0.12 | 0.23 |
| 665753 | 1.44 | 8.93  | 0.37 | 0.25 | 0.05 | 0.14 |
| 665754 | 1.36 | 12.93 | 0.39 | 0.16 | 0.07 | 0.15 |
| 665755 | 1.21 | 13.47 | 0.27 | 0.17 | 0.15 | 0.32 |
| 665756 | 1.89 | 9.27  | 0.29 | 0.22 | 0.08 | 0.11 |
| 665757 | 1.39 | 10.51 | 0.27 | 0.16 | 0.09 | 0.12 |
| 665758 | 1.46 | 6.92  | 0.30 | 0.09 | 0.03 | 0.14 |
| 665759 | 1.21 | 12.79 | 0.43 | 0.27 | 0.13 | 0.15 |
| 665760 | 1.13 | 9.63  | 0.24 | 0.28 | 0.09 | 0.13 |
| 665761 | 1.38 | 10.17 | 0.24 | 0.15 | 0.09 | 0.16 |

Male, Group VII - 1000 mg/kg - Day 29

|        |      |       |      |      |      |      |
|--------|------|-------|------|------|------|------|
| 665762 | 1.41 | 9.73  | 0.35 | 0.23 | 0.30 | 0.10 |
| 665763 | 1.05 | 10.42 | 0.48 | 0.21 | 0.07 | 0.15 |
| 665764 | 1.13 | 8.52  | 0.32 | 0.20 | 0.12 | 0.06 |
| 665765 | 2.04 | 14.12 | 0.45 | 0.20 | 0.13 | 0.19 |
| 665766 | 2.95 | 12.44 | 0.51 | 0.25 | 0.12 | 0.26 |
| 665767 | 2.68 | 13.55 | 0.44 | 0.26 | 0.11 | 0.17 |
| 665768 | 2.91 | 12.33 | 0.68 | 0.29 | 0.14 | 0.32 |
| 665769 | 2.47 | 10.42 | 0.26 | 0.28 | 0.13 | 0.10 |
| 665770 | 1.69 | 13.12 | 0.42 | 0.33 | 0.11 | 0.21 |
| 665771 | 1.66 | 12.28 | 0.23 | 0.20 | 0.17 | 0.11 |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Red Blood Cell Morphology Values

| Animal<br>Number                    | NORM | ANIS | MIC | MAC | POLY  | HYPO | ECHI     | ACAN  | TARG | RX | HJB |
|-------------------------------------|------|------|-----|-----|-------|------|----------|-------|------|----|-----|
| Male, Group I - 0 mg/kg - Day 29    |      |      |     |     |       |      |          |       |      |    |     |
| 665732                              | NO   | -    | -   | -   | TRACE | -    | MODERATE | FEW   | -    | -  | -   |
| 665733                              | NO   | -    | -   | -   | TRACE | -    | MODERATE | TRACE | -    | -  | -   |
| 665734                              | NO   | -    | -   | -   | TRACE | -    | TRACE    | -     | -    | -  | -   |
| 665735                              | NO   | -    | -   | -   | TRACE | -    | MANY     | TRACE | -    | -  | -   |
| 665736                              | NO   | -    | -   | -   | TRACE | -    | -        | -     | -    | -  | -   |
| 665737                              | NO   | -    | -   | -   | TRACE | -    | FEW      | -     | -    | -  | -   |
| 665738                              | NO   | -    | -   | -   | TRACE | -    | -        | FEW   | -    | -  | -   |
| 665739                              | NO   | -    | -   | -   | TRACE | -    | -        | -     | -    | -  | -   |
| 665740                              | NO   | -    | -   | -   | TRACE | -    | -        | TRACE | -    | -  | -   |
| 665741                              | NO   | -    | -   | -   | TRACE | -    | MANY     | TRACE | -    | -  | -   |
| Male, Group III - 10 mg/kg - Day 29 |      |      |     |     |       |      |          |       |      |    |     |
| 665742                              | NO   | -    | -   | -   | TRACE | -    | -        | FEW   | -    | -  | -   |
| 665743                              | NO   | -    | -   | -   | TRACE | -    | -        | FEW   | -    | -  | -   |
| 665744                              | NO   | -    | -   | -   | TRACE | -    | -        | -     | -    | -  | -   |
| 665745                              | NO   | -    | -   | -   | TRACE | -    | MODERATE | TRACE | -    | -  | -   |
| 665746                              | NO   | -    | -   | -   | TRACE | -    | TRACE    | TRACE | -    | -  | -   |
| 665747                              | NO   | -    | -   | -   | TRACE | -    | -        | -     | -    | -  | -   |
| 665748                              | NO   | -    | -   | -   | TRACE | -    | FEW      | -     | -    | -  | -   |
| 665749                              | NO   | -    | -   | -   | TRACE | -    | FEW      | FEW   | -    | -  | -   |
| 665750                              | NO   | -    | -   | -   | TRACE | -    | MODERATE | FEW   | -    | -  | -   |
| 665751                              | NO   | -    | -   | -   | TRACE | -    | -        | -     | -    | -  | -   |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Red Blood Cell Morphology Values

| Animal<br>Number                      | NORM | ANIS | MIC | MAC | POLY  | HYPO | ECHI     | ACAN     | TARG | RX | HJB |
|---------------------------------------|------|------|-----|-----|-------|------|----------|----------|------|----|-----|
| Male, Group V - 100 mg/kg - Day 29    |      |      |     |     |       |      |          |          |      |    |     |
| 665752                                | NO   | -    | -   | -   | TRACE | -    | -        | -        | -    | -  | -   |
| 665753                                | NO   | -    | -   | -   | TRACE | -    | FEW      | FEW      | -    | -  | -   |
| 665754                                | NO   | -    | -   | -   | TRACE | -    | FEW      | TRACE    | -    | -  | -   |
| 665755                                | NO   | -    | -   | -   | TRACE | -    | FEW      | -        | -    | -  | -   |
| 665756                                | NO   | -    | -   | -   | TRACE | -    | FEW      | -        | -    | -  | -   |
| 665757                                | NO   | -    | -   | -   | TRACE | -    | FEW      | FEW      | -    | -  | -   |
| 665758                                | NO   | -    | -   | -   | TRACE | -    | MODERATE | TRACE    | -    | -  | -   |
| 665759                                | NO   | -    | -   | -   | TRACE | -    | TRACE    | -        | -    | -  | -   |
| 665760                                | NO   | -    | -   | -   | TRACE | -    | FEW      | TRACE    | -    | -  | -   |
| 665761                                | NO   | -    | -   | -   | TRACE | -    | -        | -        | -    | -  | -   |
| Male, Group VII - 1000 mg/kg - Day 29 |      |      |     |     |       |      |          |          |      |    |     |
| 665762                                | NO   | -    | -   | -   | TRACE | -    | FEW      | TRACE    | -    | -  | -   |
| 665763                                | NO   | -    | -   | -   | TRACE | -    | MODERATE | FEW      | -    | -  | -   |
| 665764                                | NO   | -    | -   | -   | TRACE | -    | MODERATE | MODERATE | -    | -  | -   |
| 665765                                | NO   | -    | -   | -   | TRACE | -    | MODERATE | TRACE    | -    | -  | -   |
| 665766                                | NO   | -    | -   | -   | TRACE | -    | MODERATE | FEW      | -    | -  | -   |
| 665767                                | NO   | -    | -   | -   | TRACE | -    | MANY     | MODERATE | -    | -  | -   |
| 665768                                | NO   | -    | -   | -   | TRACE | -    | TRACE    | TRACE    | -    | -  | -   |
| 665769                                | NO   | -    | -   | -   | TRACE | -    | -        | -        | -    | -  | -   |
| 665770                                | NO   | -    | -   | -   | TRACE | -    | TRACE    | TRACE    | -    | -  | -   |
| 665771                                | NO   | -    | -   | -   | TRACE | -    | TRACE    | FEW      | -    | -  | -   |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual White Blood Cell / Platelet Morphology Values

| Animal Number                       | NORM | SM | TOX | DB | VC | BC | PCE      | GP | BP |
|-------------------------------------|------|----|-----|----|----|----|----------|----|----|
| Male, Group I - 0 mg/kg - Day 29    |      |    |     |    |    |    |          |    |    |
| 665732                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665733                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665734                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665735                              | NO   | -  | -   | -  | -  | -  | YES/ADEQ | -  | -  |
| 665736                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665737                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665738                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665739                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665740                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665741                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| Male, Group III - 10 mg/kg - Day 29 |      |    |     |    |    |    |          |    |    |
| 665742                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665743                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665744                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665745                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665746                              | NO   | -  | -   | -  | -  | -  | YES/ADEQ | -  | -  |
| 665747                              | NO   | -  | -   | -  | -  | -  | YES/ADEQ | -  | -  |
| 665748                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665749                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665750                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |
| 665751                              | YES  | -  | -   | -  | -  | -  | -        | -  | -  |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual White Blood Cell / Platelet Morphology Values

| Animal Number                         | NORM | SM | TOX | DB | VC | BC | PCE      | GP    | BP |
|---------------------------------------|------|----|-----|----|----|----|----------|-------|----|
| Male, Group V - 100 mg/kg - Day 29    |      |    |     |    |    |    |          |       |    |
| 665752                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665753                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665754                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665755                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665756                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665757                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665758                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665759                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665760                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665761                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| Male, Group VII - 1000 mg/kg - Day 29 |      |    |     |    |    |    |          |       |    |
| 665762                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665763                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665764                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665765                                | NO   | -  | -   | -  | -  | -  | -        | TRACE | -  |
| 665766                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665767                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665768                                | NO   | -  | -   | -  | -  | -  | YES/ADEQ | -     | -  |
| 665769                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |
| 665770                                | NO   | -  | -   | -  | -  | -  | YES/ADEQ | -     | -  |
| 665771                                | YES  | -  | -   | -  | -  | -  | -        | -     | -  |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Clinical Chemistry Values

| Animal Number                    | SHEM  | SLIP | SICT | AST<br>U/L | ALT<br>U/L | SDH<br>U/L | ALKP<br>U/L | BILI<br>mg/dL | BUN<br>mg/dL | CREA<br>mg/dL | CHOL<br>mg/dL |
|----------------------------------|-------|------|------|------------|------------|------------|-------------|---------------|--------------|---------------|---------------|
| Male, Group I - 0 mg/kg - Day 29 |       |      |      |            |            |            |             |               |              |               |               |
| 665732                           | TRACE | NONE | NONE | 113        | 42         | 15.5       | 126         | <0.10         | 16           | 0.34          | 39            |
| 665733                           | TRACE | NONE | NONE | 106        | 49         | 14.0       | 187         | 0.12          | 14           | 0.40          | 36            |
| 665734                           | TRACE | NONE | NONE | 117        | 52         | 11.8       | 197         | <0.10         | 14           | 0.35          | 39            |
| 665735                           | NONE  | NONE | NONE | 112        | 59         | 12.2       | 176         | 0.10          | 13           | 0.39          | 49            |
| 665736                           | TRACE | NONE | NONE | 130        | 63         | 14.2       | 232         | 0.11          | 16           | 0.46          | 51            |
| 665737                           | TRACE | NONE | NONE | 95         | 55         | 7.2        | 213         | 0.10          | 13           | 0.35          | 42            |
| 665738                           | NONE  | NONE | NONE | 107        | 50         | 11.6       | 190         | 0.12          | 16           | 0.42          | 49            |
| 665739                           | TRACE | NONE | NONE | 126        | 49         | 11.6       | 245         | 0.11          | 19           | 0.38          | 33            |
| 665740                           | NONE  | NONE | NONE | 89         | 35         | 11.7       | 197         | <0.10         | 13           | 0.30          | 49            |
| 665741                           | NONE  | NONE | NONE | 94         | 50         | 18.0       | 251         | 0.11          | 17           | 0.38          | 43            |

Male, Group III - 10 mg/kg - Day 29

|        |       |      |      |     |    |      |     |      |    |      |    |
|--------|-------|------|------|-----|----|------|-----|------|----|------|----|
| 665742 | TRACE | NONE | NONE | 117 | 73 | 12.8 | 176 | 0.11 | 12 | 0.40 | 53 |
| 665743 | TRACE | NONE | NONE | 118 | 65 | 14.0 | 205 | 0.10 | 14 | 0.37 | 58 |
| 665744 | TRACE | NONE | NONE | 110 | 50 | 15.4 | 187 | 0.16 | 19 | 0.39 | 47 |
| 665745 | NONE  | NONE | NONE | 99  | 45 | 14.7 | 210 | 0.11 | 16 | 0.43 | 55 |
| 665746 | NONE  | NONE | NONE | 119 | 57 | 16.8 | 237 | 0.12 | 18 | 0.40 | 45 |
| 665747 | NONE  | NONE | NONE | 115 | 57 | 10.1 | 184 | 0.10 | 15 | 0.37 | 46 |
| 665748 | NONE  | NONE | NONE | 99  | 42 | 13.6 | 171 | 0.12 | 17 | 0.44 | 50 |
| 665749 | TRACE | NONE | NONE | 124 | 91 | 12.5 | 234 | 0.11 | 14 | 0.39 | 58 |
| 665750 | SMALL | NONE | NONE | 108 | 51 | 5.6  | 288 | 0.12 | 13 | 0.33 | 53 |
| 665751 | TRACE | NONE | NONE | 109 | 65 | 19.8 | 244 | 0.12 | 13 | 0.37 | 48 |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

| Animal<br>Number                      | SHEM  | SLIP  | SICT | AST<br>U/L | Individual Clinical Chemistry Values |            |             |               |              |               |      | CHOL<br>mg/dL |
|---------------------------------------|-------|-------|------|------------|--------------------------------------|------------|-------------|---------------|--------------|---------------|------|---------------|
|                                       |       |       |      |            | ALT<br>U/L                           | SDH<br>U/L | ALKP<br>U/L | BILI<br>mg/dL | BUN<br>mg/dL | CREA<br>mg/dL |      |               |
| Male, Group V - 100 mg/kg - Day 29    |       |       |      |            |                                      |            |             |               |              |               |      |               |
| 665752                                | TRACE | NONE  | NONE | 234        | 165                                  | 39.8       | 313         |               | 0.14         | 16            | 0.49 | 51            |
| 665753                                | TRACE | NONE  | NONE | 108        | 75                                   | 15.0       | 252         |               | 0.10         | 16            | 0.40 | 47            |
| 665754                                | TRACE | NONE  | NONE | 119        | 70                                   | 12.8       | 225         |               | 0.11         | 14            | 0.49 | 52            |
| 665755                                | TRACE | NONE  | NONE | 120        | 63                                   | 11.6       | 195         |               | 0.12         | 14            | 0.42 | 41            |
| 665756                                | TRACE | NONE  | NONE | 130        | 66                                   | 14.8       | 168         |               | 0.11         | 13            | 0.42 | 61            |
| 665757                                | TRACE | NONE  | NONE | 134        | 96                                   | 22.3       | 263         |               | 0.12         | 15            | 0.40 | 53            |
| 665758                                | NONE  | NONE  | NONE | 155        | 132                                  | 38.1       | 198         |               | 0.12         | 17            | 0.36 | 51            |
| 665759                                | TRACE | NONE  | NONE | 144        | 103                                  | 15.5       | 164         |               | 0.13         | 15            | 0.35 | 40            |
| 665760                                | TRACE | NONE  | NONE | 198        | 147                                  | 24.1       | 227         |               | 0.14         | 12            | 0.45 | 56            |
| 665761                                | TRACE | TRACE | NONE | 111        | 78                                   | 11.9       | 245         |               | 0.12         | 13            | 0.39 | 58            |
| Male, Group VII - 1000 mg/kg - Day 29 |       |       |      |            |                                      |            |             |               |              |               |      |               |
| 665762                                | SMALL | NONE  | NONE | 185        | 90                                   | 7.2        | 257         |               | 0.14         | 14            | 0.36 | 53            |
| 665763                                | TRACE | NONE  | NONE | 123        | 82                                   | 10.3       | 248         |               | 0.12         | 14            | 0.43 | 57            |
| 665764                                | TRACE | NONE  | NONE | 107        | 80                                   | 12.2       | 244         |               | <0.10        | 15            | 0.42 | 66            |
| 665765                                | TRACE | NONE  | NONE | 135        | 98                                   | 15.6       | 338         |               | 0.15         | 16            | 0.44 | 55            |
| 665766                                | TRACE | NONE  | NONE | 150        | 112                                  | 19.2       | 338         |               | 0.15         | 13            | 0.38 | 67            |
| 665767                                | TRACE | NONE  | NONE | 123        | 88                                   | 16.5       | 206         |               | <0.10        | 16            | 0.39 | 56            |
| 665768                                | TRACE | NONE  | NONE | 121        | 80                                   | 7.7        | 248         |               | 0.15         | 12            | 0.40 | 54            |
| 665769                                | SMALL | NONE  | NONE | 372        | 297                                  | 20.4       | 258         |               | 0.16         | 18            | 0.50 | 52            |
| 665770                                | NONE  | NONE  | NONE | 139        | 99                                   | 19.2       | 363         |               | 0.14         | 17            | 0.40 | 46            |
| 665771                                | TRACE | NONE  | NONE | 111        | 87                                   | 10.2       | 244         |               | 0.10         | 13            | 0.36 | 60            |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Clinical Chemistry Values

| Animal Number                       | TRIG<br>mg/dL | GLUC<br>mg/dL | TP<br>g/dL | ALB<br>g/dL | GLOB<br>g/dL | CALC<br>mg/dL | IPHS<br>mg/dL | NA<br>mmol/L | K<br>mmol/L | CL<br>mmol/L |
|-------------------------------------|---------------|---------------|------------|-------------|--------------|---------------|---------------|--------------|-------------|--------------|
| Male, Group I - 0 mg/kg - Day 29    |               |               |            |             |              |               |               |              |             |              |
| 665732                              | 23            | 85            | 6.6        | 4.3         | 2.3          | 10.8          | 8.2           | 148.3        | 6.29        | 103.2        |
| 665733                              | 27            | 94            | 6.6        | 4.5         | 2.1          | 10.9          | 8.8           | 149.8        | 6.47        | 102.4        |
| 665734                              | 25            | 85            | 6.7        | 4.1         | 2.6          | 10.9          | 8.5           | 150.4        | 6.08        | 103.0        |
| 665735                              | 23            | 83            | 6.8        | 4.3         | 2.5          | 11.1          | 7.8           | 151.3        | 6.14        | 103.3        |
| 665736                              | 52            | 96            | 6.9        | 4.6         | 2.3          | 11.3          | 8.5           | 151.8        | 6.13        | 102.8        |
| 665737                              | 25            | 106           | 6.7        | 4.2         | 2.5          | 10.6          | 8.2           | 147.1        | 6.37        | 98.1         |
| 665738                              | 20            | 91            | 6.2        | 4.0         | 2.2          | 9.9           | 7.4           | 148.4        | 5.84        | 101.9        |
| 665739                              | 26            | 81            | 6.6        | 4.2         | 2.4          | 10.8          | 7.9           | 150.3        | 6.27        | 103.5        |
| 665740                              | 36            | 98            | 6.6        | 4.1         | 2.5          | 10.9          | 8.1           | 150.9        | 5.86        | 101.9        |
| 665741                              | 39            | 95            | 7.1        | 4.5         | 2.6          | 11.0          | 7.3           | 151.3        | 6.42        | 103.7        |
| Male, Group III - 10 mg/kg - Day 29 |               |               |            |             |              |               |               |              |             |              |
| 665742                              | 54            | 100           | 6.6        | 4.1         | 2.5          | 10.5          | 7.5           | 149.4        | 5.91        | 102.1        |
| 665743                              | 41            | 91            | 6.2        | 4.0         | 2.2          | 10.6          | 7.7           | 150.5        | 6.05        | 104.0        |
| 665744                              | 50            | 111           | 6.7        | 4.2         | 2.5          | 10.8          | 7.4           | 148.7        | 5.31        | 99.4         |
| 665745                              | 25            | 93            | 6.6        | 4.2         | 2.4          | 10.8          | 8.0           | 151.8        | 5.96        | 105.0        |
| 665746                              | 44            | 86            | 6.4        | 4.3         | 2.1          | 11.3          | 8.4           | 152.9        | 6.06        | 105.4        |
| 665747                              | 66            | 80            | 6.5        | 4.1         | 2.4          | 10.1          | 7.8           | 147.7        | 5.74        | 100.8        |
| 665748                              | 28            | 89            | 6.8        | 4.5         | 2.3          | 10.7          | 7.4           | 149.4        | 5.93        | 101.8        |
| 665749                              | 28            | 101           | 7.1        | 4.2         | 2.9          | 10.7          | 8.1           | 148.3        | 6.37        | 102.5        |
| 665750                              | 33            | 97            | 7.0        | 4.2         | 2.8          | 11.3          | 8.0           | 149.4        | 6.80        | 101.6        |
| 665751                              | 66            | 125           | 6.8        | 4.1         | 2.7          | 11.4          | 9.2           | 149.7        | 6.35        | 101.9        |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Clinical Chemistry Values

| Animal Number                      | TRIG<br>mg/dL | GLUC<br>mg/dL | TP<br>g/dL | ALB<br>g/dL | GLOB<br>g/dL | CALC<br>mg/dL | IPHS<br>mg/dL | NA<br>mmol/L | K<br>mmol/L | CL<br>mmol/L |
|------------------------------------|---------------|---------------|------------|-------------|--------------|---------------|---------------|--------------|-------------|--------------|
| Male, Group V - 100 mg/kg - Day 29 |               |               |            |             |              |               |               |              |             |              |
| 665752                             | 74            | 96            | 7.1        | 4.5         | 2.6          | 10.9          | 8.8           | 150.7        | 6.55        | 102.7        |
| 665753                             | 42            | 88            | 6.4        | 4.0         | 2.4          | 10.7          | 7.9           | 150.1        | 6.23        | 104.6        |
| 665754                             | 26            | 91            | 6.4        | 3.8         | 2.6          | 10.6          | 8.5           | 147.7        | 6.31        | 104.2        |
| 665755                             | 38            | 98            | 6.5        | 4.3         | 2.2          | 10.9          | 7.8           | 149.3        | 6.64        | 105.4        |
| 665756                             | 46            | 86            | 6.5        | 4.0         | 2.5          | 10.2          | 7.4           | 151.3        | 5.71        | 104.9        |
| 665757                             | 65            | 114           | 6.6        | 4.1         | 2.5          | 10.1          | 7.7           | 147.5        | 5.82        | 100.4        |
| 665758                             | 42            | 88            | 6.4        | 4.0         | 2.4          | 10.4          | 7.8           | 149.5        | 5.65        | 102.5        |
| 665759                             | 38            | 101           | 6.2        | 4.0         | 2.2          | 10.4          | 7.2           | 150.0        | 6.11        | 104.6        |
| 665760                             | 49            | 109           | 6.6        | 4.2         | 2.4          | 10.7          | 7.8           | 150.7        | 6.44        | 104.6        |
| 665761                             | 32            | 103           | 6.4        | 4.0         | 2.4          | 10.2          | 7.8           | 150.1        | 6.75        | 104.6        |

Male, Group VII - 1000 mg/kg - Day 29

|        |     |     |     |     |     |      |     |       |      |       |
|--------|-----|-----|-----|-----|-----|------|-----|-------|------|-------|
| 665762 | 40  | 85  | 6.7 | 4.2 | 2.5 | 10.0 | 8.1 | 149.2 | 6.66 | 102.4 |
| 665763 | 72  | 100 | 6.5 | 4.1 | 2.4 | 10.7 | 8.2 | 147.1 | 5.96 | 101.2 |
| 665764 | 46  | 106 | 6.4 | 3.9 | 2.5 | 10.6 | 8.0 | 147.8 | 5.75 | 101.8 |
| 665765 | 50  | 88  | 6.5 | 4.1 | 2.4 | 10.6 | 8.1 | 150.9 | 6.05 | 104.9 |
| 665766 | 103 | 105 | 6.8 | 4.1 | 2.7 | 10.6 | 8.6 | 150.8 | 5.84 | 103.3 |
| 665767 | 50  | 101 | 6.6 | 4.0 | 2.6 | 10.4 | 8.1 | 148.0 | 6.12 | 101.1 |
| 665768 | 44  | 100 | 6.8 | 4.0 | 2.8 | 10.6 | 7.8 | 148.7 | 5.41 | 101.9 |
| 665769 | 53  | 117 | 6.7 | 4.2 | 2.5 | 10.4 | 7.6 | 147.4 | 6.21 | 101.0 |
| 665770 | 54  | 95  | 6.9 | 4.3 | 2.6 | 10.9 | 8.3 | 149.7 | 5.92 | 102.8 |
| 665771 | 43  | 111 | 6.6 | 4.2 | 2.4 | 10.6 | 7.1 | 150.2 | 5.93 | 104.6 |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Clinical Chemistry Values

| Animal Number | PHEM | PLIP | PICT | PFLU<br>µg/mL |
|---------------|------|------|------|---------------|
|---------------|------|------|------|---------------|

Male, Group I - 0 mg/kg - Day 29

|        |      |      |      |     |
|--------|------|------|------|-----|
| 665732 | NONE | NONE | NONE | 0.1 |
| 665733 | NONE | NONE | NONE | 0.1 |
| 665734 | NONE | NONE | NONE | 0.1 |
| 665735 | NONE | NONE | NONE | 0.1 |
| 665736 | NONE | NONE | NONE | 0.1 |
| 665737 | NONE | NONE | NONE | 0.1 |
| 665738 | NONE | NONE | NONE | 0.1 |
| 665739 | NONE | NONE | NONE | 0.1 |
| 665740 | NONE | NONE | NONE | 0.1 |
| 665741 | NONE | NONE | NONE | 0.1 |

Male, Group III - 10 mg/kg - Day 29

|        |      |      |      |     |
|--------|------|------|------|-----|
| 665742 | NONE | NONE | NONE | 0.1 |
| 665743 | NONE | NONE | NONE | 0.1 |
| 665744 | NONE | NONE | NONE | 0.1 |
| 665745 | NONE | NONE | NONE | 0.1 |
| 665746 | NONE | NONE | NONE | 0.1 |
| 665747 | NONE | NONE | NONE | 0.1 |
| 665748 | NONE | NONE | NONE | 0.1 |
| 665749 | NONE | NONE | NONE | 0.1 |
| 665750 | NONE | NONE | NONE | 0.1 |
| 665751 | NONE | NONE | NONE | 0.1 |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Clinical Chemistry Values

Animal PHEM FLIP PICT PFLU  
Number

Male, Group V - 100 mg/kg - Day 29

|        |      |      |      |     |
|--------|------|------|------|-----|
| 665752 | NONE | NONE | NONE | 0.1 |
| 665753 | NONE | NONE | NONE | 0.1 |
| 665754 | NONE | NONE | NONE | 0.1 |
| 665755 | NONE | NONE | NONE | 0.1 |
| 665756 | NONE | NONE | NONE | 0.1 |
| 665757 | NONE | NONE | NONE | 0.0 |
| 665758 | NONE | NONE | NONE | 0.1 |
| 665759 | NONE | NONE | NONE | 0.1 |
| 665760 | NONE | NONE | NONE | 0.1 |
| 665761 | NONE | NONE | NONE | 0.1 |

Male, Group VII - 1000 mg/kg - Day 29

|        |      |      |      |     |
|--------|------|------|------|-----|
| 665762 | NONE | NONE | NONE | 0.1 |
| 665763 | NONE | NONE | NONE | 0.1 |
| 665764 | NONE | NONE | NONE | 0.1 |
| 665765 | NONE | NONE | NONE | 0.1 |
| 665766 | NONE | NONE | NONE | 0.1 |
| 665767 | NONE | NONE | NONE | 0.1 |
| 665768 | NONE | NONE | NONE | 0.1 |
| 665769 | NONE | NONE | NONE | 0.1 |
| 665770 | NONE | NONE | NONE | 0.1 |
| 665771 | NONE | NONE | NONE | 0.1 |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

| Animal<br>Number                    | QUAL   | COL    | CLAR  | VOL<br>mL | Individual Urinalysis Values |     |               |              |          |          | URO<br>EU/dL |
|-------------------------------------|--------|--------|-------|-----------|------------------------------|-----|---------------|--------------|----------|----------|--------------|
|                                     |        |        |       |           | UOSM<br>mOsm/kg              | pH  | UGLU<br>mg/dL | KET<br>mg/dL | UBIL     | BLD      |              |
| Male, Group I - 0 mg/kg - Day 29    |        |        |       |           |                              |     |               |              |          |          |              |
| 665732                              | MEDIUM | YELLOW | CLEAR | 3.8       | 2055                         | 6.0 | NEGATIVE      | 5            | NEGATIVE | NEGATIVE | 0.2          |
| 665733                              | MEDIUM | YELLOW | CLEAR | 5.0       | 1784                         | 7.0 | NEGATIVE      | 5            | NEGATIVE | NEGATIVE | 0.2          |
| 665734                              | LIGHT  | YELLOW | CLEAR | 7.0       | 1189                         | 7.0 | NEGATIVE      | 5            | NEGATIVE | NEGATIVE | 0.2          |
| 665735                              | LIGHT  | YELLOW | CLEAR | 10.4      | 937                          | 6.5 | NEGATIVE      | NEGATIVE     | NEGATIVE | NEGATIVE | 0.2          |
| 665736                              | LIGHT  | YELLOW | HAZY  | 5.4       | 1590                         | 6.5 | NEGATIVE      | 5            | NEGATIVE | TRACE    | 0.2          |
| 665737                              | LIGHT  | YELLOW | HAZY  | 13.6      | 828                          | 7.0 | NEGATIVE      | NEGATIVE     | NEGATIVE | NEGATIVE | 0.2          |
| 665738                              | MEDIUM | YELLOW | CLEAR | 2.2       | 3706                         | 7.0 | NEGATIVE      | 5            | SMALL    | NEGATIVE | 1.0          |
| 665739                              | LIGHT  | YELLOW | HAZY  | 28.0      | 412                          | 7.0 | NEGATIVE      | NEGATIVE     | NEGATIVE | TRACE    | 0.2          |
| 665740                              | LIGHT  | YELLOW | HAZY  | 6.4       | 1347                         | 7.0 | NEGATIVE      | 15           | NEGATIVE | NEGATIVE | 0.2          |
| 665741                              | LIGHT  | YELLOW | CLEAR | 3.8       | 1663                         | 7.0 | NEGATIVE      | 5            | NEGATIVE | NEGATIVE | 0.2          |
| Male, Group III - 10 mg/kg - Day 29 |        |        |       |           |                              |     |               |              |          |          |              |
| 665742                              | MEDIUM | YELLOW | HAZY  | 5.4       | 1653                         | 6.5 | NEGATIVE      | 15           | NEGATIVE | TRACE    | 0.2          |
| 665743                              | LIGHT  | YELLOW | CLEAR | 10.4      | 761                          | 6.5 | NEGATIVE      | 5            | NEGATIVE | NEGATIVE | 0.2          |
| 665744                              | LIGHT  | YELLOW | HAZY  | 5.2       | 1949                         | 6.5 | NEGATIVE      | 15           | NEGATIVE | TRACE    | 0.2          |
| 665745                              | LIGHT  | YELLOW | HAZY  | 10.8      | 861                          | 7.0 | NEGATIVE      | 15           | NEGATIVE | SMALL    | 0.2          |
| 665746                              | LIGHT  | YELLOW | HAZY  | 6.0       | 1364                         | 7.0 | NEGATIVE      | 5            | NEGATIVE | NEGATIVE | 0.2          |
| 665747                              | LIGHT  | YELLOW | CLEAR | 27.0      | 443                          | 6.5 | NEGATIVE      | 5            | NEGATIVE | NEGATIVE | 0.2          |
| 665748                              | LIGHT  | YELLOW | HAZY  | 8.0       | 991                          | 7.0 | NEGATIVE      | 5            | NEGATIVE | NEGATIVE | 0.2          |
| 665749                              | LIGHT  | YELLOW | HAZY  | 10.4      | 1112                         | 7.0 | NEGATIVE      | 5            | NEGATIVE | NEGATIVE | 0.2          |
| 665750                              | LIGHT  | YELLOW | CLEAR | 10.6      | 1218                         | 6.5 | NEGATIVE      | 5            | NEGATIVE | NEGATIVE | 0.2          |
| 665751                              | LIGHT  | YELLOW | HAZY  | 8.0       | 1999                         | 8.5 | NEGATIVE      | 15           | NEGATIVE | NEGATIVE | 0.2          |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

| Individual Urinalysis Values          |        |        |        |        |              |     |            |           |          |          |           |
|---------------------------------------|--------|--------|--------|--------|--------------|-----|------------|-----------|----------|----------|-----------|
| Animal Number                         | QUAL   | COL    | CLAR   | VOL mL | UOSM mOsm/kg | pH  | UGLU mg/dL | KET mg/dL | UBIL     | BLD      | URO EU/dL |
| Male, Group V - 100 mg/kg - Day 29    |        |        |        |        |              |     |            |           |          |          |           |
| 665752                                | LIGHT  | YELLOW | CLEAR  | 12.0   | 758          | 7.0 | NEGATIVE   | 5         | NEGATIVE | NEGATIVE | 0.2       |
| 665753                                | LIGHT  | YELLOW | CLOUDY | 4.6    | 1509         | 7.0 | NEGATIVE   | 5         | NEGATIVE | SMALL    | 0.2       |
| 665754                                | LIGHT  | YELLOW | CLEAR  | 5.8    | 1550         | 7.0 | NEGATIVE   | 15        | NEGATIVE | NEGATIVE | 0.2       |
| 665755                                | LIGHT  | YELLOW | HAZY   | 6.8    | 1589         | 7.0 | NEGATIVE   | 5         | NEGATIVE | NEGATIVE | 0.2       |
| 665756                                | LIGHT  | YELLOW | CLEAR  | 6.8    | 1176         | 6.5 | NEGATIVE   | 5         | NEGATIVE | NEGATIVE | 0.2       |
| 665757                                | MEDIUM | YELLOW | CLEAR  | 5.8    | 1307         | 6.5 | NEGATIVE   | 5         | NEGATIVE | NEGATIVE | 0.2       |
| 665758                                | MEDIUM | YELLOW | CLEAR  | 3.0    | 1802         | 7.0 | NEGATIVE   | 15        | NEGATIVE | NEGATIVE | 0.2       |
| 665759                                | LIGHT  | YELLOW | HAZY   | 7.0    | 1101         | NT  | NT         | NT        | NT       | NT       | NT        |
| 665760                                | LIGHT  | YELLOW | HAZY   | 16.4   | 912          | 8.0 | NEGATIVE   | NEGATIVE  | NEGATIVE | NEGATIVE | 0.2       |
| 665761                                | LIGHT  | YELLOW | HAZY   | 9.0    | 1123         | 8.5 | NEGATIVE   | 5         | NEGATIVE | NEGATIVE | 0.2       |
| Male, Group VII - 1000 mg/kg - Day 29 |        |        |        |        |              |     |            |           |          |          |           |
| 665762                                | LIGHT  | YELLOW | CLEAR  | 12.8   | 779          | 6.5 | NEGATIVE   | 5         | NEGATIVE | NEGATIVE | 0.2       |
| 665763                                | LIGHT  | YELLOW | CLEAR  | 11.0   | 1107         | 6.5 | NEGATIVE   | 5         | NEGATIVE | NEGATIVE | 0.2       |
| 665764                                | LIGHT  | YELLOW | CLEAR  | 8.8    | 888          | 6.5 | NEGATIVE   | 5         | NEGATIVE | TRACE    | 0.2       |
| 665765                                | LIGHT  | YELLOW | HAZY   | 11.4   | 739          | 6.0 | NEGATIVE   | 5         | NEGATIVE | NEGATIVE | 0.2       |
| 665766                                | LIGHT  | YELLOW | CLEAR  | 16.4   | 722          | 6.5 | NEGATIVE   | 5         | NEGATIVE | NEGATIVE | 0.2       |
| 665767                                | LIGHT  | YELLOW | CLEAR  | 6.6    | 1080         | 6.5 | NEGATIVE   | 5         | NEGATIVE | MODERATE | 0.2       |
| 665768                                | LIGHT  | YELLOW | CLEAR  | 15.8   | 743          | 7.0 | NEGATIVE   | 5         | NEGATIVE | NEGATIVE | 0.2       |
| 665769                                | LIGHT  | YELLOW | HAZY   | 8.0    | 1640         | 7.5 | NEGATIVE   | 5         | NEGATIVE | NEGATIVE | 0.2       |
| 665770                                | LIGHT  | YELLOW | CLEAR  | 9.2    | 821          | 7.0 | NEGATIVE   | 5         | NEGATIVE | NEGATIVE | 0.2       |
| 665771                                | LIGHT  | YELLOW | HAZY   | 8.2    | 1096         | 7.5 | NEGATIVE   | 5         | NEGATIVE | NEGATIVE | 0.2       |

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Urinalysis Values

Animal Number UFLU µg UMTF mg/dL

Male, Group I - 0 mg/kg - Day 29

|        |      |     |
|--------|------|-----|
| 665732 | 11.4 | 40  |
| 665733 | 15.3 | 159 |
| 665734 | 12.3 | 13  |
| 665735 | 15.2 | 69  |
| 665736 | 13.3 | 165 |
| 665737 | 20.7 | 190 |
| 665738 | ONS  | 192 |
| 665739 | 21.7 | 84  |
| 665740 | 13.5 | 51  |
| 665741 | 10.2 | 151 |

Male, Group III - 10 mg/kg - Day 29

|        |      |    |
|--------|------|----|
| 665742 | 15.7 | 12 |
| 665743 | 18.2 | 48 |
| 665744 | 14.7 | 49 |
| 665745 | 14.4 | 60 |
| 665746 | 13.5 | 86 |
| 665747 | 23.2 | 95 |
| 665748 | 12.6 | 40 |
| 665749 | 15.5 | 81 |
| 665750 | 20.5 | 34 |
| 665751 | 25.4 | 94 |

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Urinalysis Values

Animal UFLU UMTF  
Number µg mg/dL

Male, Group V - 100 mg/kg - Day 29

|        |      |     |
|--------|------|-----|
| 665752 | 19.1 | 110 |
| 665753 | 16.2 | 132 |
| 665754 | 23.5 | 29  |
| 665755 | 21.7 | 24  |
| 665756 | 21.0 | 29  |
| 665757 | 15.0 | 28  |
| 665758 | 11.0 | 84  |
| 665759 | 15.1 | 70  |
| 665760 | 29.7 | 64  |
| 665761 | 19.7 | 40  |

Male, Group VII - 1000 mg/kg - Day 29

|        |      |    |
|--------|------|----|
| 665762 | 35.8 | 52 |
| 665763 | 32.8 | 28 |
| 665764 | 27.5 | 34 |
| 665765 | 31.4 | 31 |
| 665766 | 44.9 | 47 |
| 665767 | 26.9 | 39 |
| 665768 | 61.8 | 32 |
| 665769 | 17.3 | 37 |
| 665770 | 27.6 | 20 |
| 665771 | 32.8 | 16 |

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Urine Microscopic Values

| Animal Number | EPIT | UWBC | URBC | NCRY | MICR | SPER |
|---------------|------|------|------|------|------|------|
|---------------|------|------|------|------|------|------|

Male, Group I - 0 mg/kg - Day 29

|        |      |      |      |          |     |          |
|--------|------|------|------|----------|-----|----------|
| 665732 | FEW  | NONE | NONE | FEW      | FEW | FEW      |
| 665733 | NONE | NONE | NONE | FEW      | FEW | MODERATE |
| 665734 | NONE | NONE | NONE | FEW      | FEW | FEW      |
| 665735 | FEW  | NONE | NONE | FEW      | FEW | MANY     |
| 665736 | NONE | NONE | FEW  | FEW      | FEW | FEW      |
| 665737 | NONE | NONE | NONE | FEW      | FEW | MANY     |
| 665738 | QNS  | NT   | NT   | NT       | NT  | NT       |
| 665739 | NONE | NONE | NONE | FEW      | FEW | FEW      |
| 665740 | NONE | NONE | NONE | MODERATE | FEW | MANY     |
| 665741 | NONE | NONE | NONE | FEW      | FEW | FEW      |

Male, Group III - 10 mg/kg - Day 29

|        |      |      |      |          |          |          |
|--------|------|------|------|----------|----------|----------|
| 665742 | FEW  | NONE | NONE | FEW      | FEW      | FEW      |
| 665743 | NONE | NONE | NONE | FEW      | FEW      | MODERATE |
| 665744 | NONE | NONE | NONE | FEW      | FEW      | FEW      |
| 665745 | NONE | NONE | NONE | FEW      | MODERATE | FEW      |
| 665746 | NONE | NONE | NONE | FEW      | FEW      | MODERATE |
| 665747 | NONE | NONE | NONE | FEW      | FEW      | FEW      |
| 665748 | NONE | NONE | NONE | FEW      | FEW      | FEW      |
| 665749 | NONE | NONE | NONE | FEW      | FEW      | MODERATE |
| 665750 | NONE | NONE | NONE | FEW      | FEW      | MODERATE |
| 665751 | NONE | NONE | NONE | MODERATE | FEW      | MANY     |

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

Individual Urine Microscopic Values

| Animal Number | EPIT | UWBC | URBC | NCRY | MICR | SPER |
|---------------|------|------|------|------|------|------|
|---------------|------|------|------|------|------|------|

Male, Group V - 100 mg/kg - Day 29

|        |      |      |      |          |          |          |
|--------|------|------|------|----------|----------|----------|
| 665752 | NONE | NONE | NONE | FEW      | FEW      | FEW      |
| 665753 | NONE | NONE | NONE | FEW      | FEW      | FEW      |
| 665754 | NONE | NONE | NONE | FEW      | FEW      | FEW      |
| 665755 | NONE | NONE | NONE | FEW      | FEW      | MODERATE |
| 665756 | NONE | NONE | NONE | FEW      | FEW      | MODERATE |
| 665757 | NONE | NONE | NONE | FEW      | FEW      | FEW      |
| 665758 | QNS  | NT   | NT   | NT       | NT       | NT       |
| 665759 | NONE | NONE | NONE | MODERATE | FEW      | MODERATE |
| 665760 | NONE | NONE | NONE | FEW      | MODERATE | MANY     |
| 665761 | NONE | NONE | NONE | FEW      | MANY     | MANY     |

Male, Group VII - 1000 mg/kg - Day 29

|        |      |      |      |     |          |          |
|--------|------|------|------|-----|----------|----------|
| 665762 | NONE | NONE | NONE | FEW | FEW      | MANY     |
| 665763 | NONE | NONE | NONE | FEW | FEW      | FEW      |
| 665764 | NONE | NONE | NONE | FEW | FEW      | MANY     |
| 665765 | NONE | NONE | NONE | FEW | FEW      | MODERATE |
| 665766 | NONE | NONE | NONE | FEW | FEW      | FEW      |
| 665767 | NONE | NONE | NONE | FEW | FEW      | FEW      |
| 665768 | NONE | NONE | NONE | FEW | MODERATE | MODERATE |
| 665769 | NONE | NONE | NONE | FEW | FEW      | MANY     |
| 665770 | NONE | NONE | NONE | FEW | FEW      | MODERATE |
| 665771 | NONE | NONE | NONE | FEW | FEW      | MANY     |

## **APPENDIX I**

### **Individual Animal Final Body and Organ Weights**

**Company Sanitized. Does not contain TSCA CBI**

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

INDIVIDUAL ANIMAL FINAL BODY AND ORGAN WEIGHTS

| Group : I 0 mg/kg Sex :MALES |              |                  |        |                |        |                        |        |
|------------------------------|--------------|------------------|--------|----------------|--------|------------------------|--------|
| ANIMAL                       | FBW<br>(Gms) | KIDNEYS<br>(Gms) | %FBW   | LIVER<br>(Gms) | %FBW   | THYROID GLAND<br>(Gms) | %FBW   |
| 665732                       | 367.10       | 3.603            | 0.9815 | 13.370         | 3.6421 | 0.022                  | 0.0060 |
| 665733                       | 374.40       | 3.391            | 0.9057 | 11.858         | 3.1672 | 0.014                  | 0.0037 |
| 665734                       | 344.90       | 3.056            | 0.8861 | 11.177         | 3.2406 | 0.017                  | 0.0049 |
| 665735                       | 325.60       | 2.757            | 0.8467 | 9.469          | 2.9082 | 0.015                  | 0.0046 |
| 665736                       | 349.80       | 2.764            | 0.7902 | 10.941         | 3.1278 | 0.018                  | 0.0051 |
| 665737                       | NW           | 2.972            |        | 11.468         |        | 0.014                  |        |
| 665738                       | 308.50       | 2.499            | 0.8100 | 9.907          | 3.2113 | 0.021                  | 0.0068 |
| 665739                       | 369.40       | 3.079            | 0.8335 | 10.394         | 2.8138 | 0.013                  | 0.0035 |
| 665740                       | 366.90       | 3.577            | 0.9749 | 10.330         | 2.8155 | 0.019                  | 0.0052 |
| 665741                       | 322.00       | 2.443            | 0.7587 | 9.029          | 2.8040 | NW                     |        |
| Mean                         | 347.62       | 3.014            | 0.8653 | 10.794         | 3.0812 | 0.017                  | 0.0050 |
| S.D.                         | 24.048       | 0.413            | 0.0783 | 1.266          | 0.2774 | 0.003                  | 0.0011 |

NW = Not weighed due to technician error

FBW - Final Body Weight

Company Sanitized. Does not contain TSCA CBI

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

INDIVIDUAL ANIMAL FINAL BODY AND ORGAN WEIGHTS

Group : III 10 mg/kg Sex : MALES

| ANIMAL | FBW<br>(Gms) | KIDNEYS<br>(Gms) | %FBW * | LIVER<br>(Gms) | %FBW   | THYROID GLAND<br>(Gms) | %FBW   |
|--------|--------------|------------------|--------|----------------|--------|------------------------|--------|
| 665742 | 357.60       | 3.220            | 0.9004 | 11.866         | 3.3182 | 0.012                  | 0.0034 |
| 665743 | 323.20       | 2.747            | 0.8499 | 9.521          | 2.9459 | 0.022                  | 0.0068 |
| 665744 | 358.50       | 3.332            | 0.9294 | 10.955         | 3.0558 | 0.014                  | 0.0039 |
| 665745 | 379.60       | 3.207            | 0.8448 | 10.301         | 2.7136 | 0.024                  | 0.0063 |
| 665746 | 365.60       | 3.055            | 0.8356 | 10.983         | 3.0041 | 0.021                  | 0.0057 |
| 665747 | 379.80       | 3.138            | 0.8262 | 10.959         | 2.8855 | 0.026                  | 0.0068 |
| 665748 | 321.70       | 2.769            | 0.8607 | 9.960          | 3.0961 | 0.019                  | 0.0059 |
| 665749 | 357.50       | 2.811            | 0.7863 | 9.900          | 2.7692 | 0.020                  | 0.0056 |
| 665750 | 400.10       | 3.238            | 0.8093 | 12.686         | 3.1707 | 0.017                  | 0.0042 |
| 665751 | 434.10       | 3.857            | 0.8885 | 13.914         | 3.2053 | 0.021                  | 0.0048 |
| Mean   | 367.77       | 3.137            | 0.8531 | 11.105         | 3.0164 | 0.020                  | 0.0054 |
| S.D.   | 33.563       | 0.330            | 0.0433 | 1.372          | 0.1925 | 0.004                  | 0.0012 |

FBW - Final Body Weight

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

INDIVIDUAL ANIMAL FINAL BODY AND ORGAN WEIGHTS

Group : V 100 mg/kg Sex : MALES

| ANIMAL | FBW<br>(Gms) | KIDNEYS<br>(Gms) | %FBW   | LIVER<br>(Gms) | %FBW   | THYROID GLAND<br>(Gms) | %FBW   |
|--------|--------------|------------------|--------|----------------|--------|------------------------|--------|
| 665752 | 349.00       | 3.050            | 0.8739 | 10.923         | 3.1298 | 0.020                  | 0.0057 |
| 665753 | 333.10       | 2.841            | 0.7929 | 10.373         | 3.1141 | 0.015                  | 0.0045 |
| 665754 | 386.20       | 3.271            | 0.8470 | 11.874         | 3.0746 | 0.016                  | 0.0041 |
| 665755 | 352.10       | 2.845            | 0.8080 | 10.946         | 3.1088 | 0.017                  | 0.0048 |
| 665756 | 336.40       | 2.565            | 0.7625 | 9.508          | 2.8264 | 0.015                  | 0.0045 |
| 665757 | 331.00       | 2.764            | 0.8350 | 9.854          | 2.9770 | 0.017                  | 0.0051 |
| 665758 | 347.10       | 3.260            | 0.9392 | 10.333         | 2.9770 | 0.019                  | 0.0055 |
| 665759 | 330.00       | 2.966            | 0.8988 | 10.224         | 3.0982 | 0.016                  | 0.0048 |
| 665760 | 348.30       | 3.298            | 0.9469 | 10.415         | 2.9902 | 0.017                  | 0.0049 |
| 665761 | 307.10       | 2.487            | 0.8098 | 8.072          | 2.6285 | 0.018                  | 0.0059 |
| Mean   | 342.03       | 2.915            | 0.8514 | 10.252         | 2.9925 | 0.017                  | 0.0050 |
| S.D.   | 20.450       | 0.302            | 0.0622 | 1.004          | 0.1583 | 0.002                  | 0.0006 |

FBW - Final Body Weight

H-25435: Repeated-Dose Dermal Toxicity  
28-Day Study in Male Rats

DuPont-11574

INDIVIDUAL ANIMAL FINAL BODY AND ORGAN WEIGHTS

Group : VII 1000 mg/kg Sex : MALES

| ANIMAL | FBW<br>(Gms) | KIDNEYS<br>(Gms) | %FBW   | LIVER<br>(Gms) | %FBW   | THYROID GLAND<br>(Gms) | %FBW   |
|--------|--------------|------------------|--------|----------------|--------|------------------------|--------|
| 665762 | 321.80       | 3.036            | 0.9434 | 10.006         | 3.1094 | 0.020                  | 0.0062 |
| 665763 | 377.80       | 2.988            | 0.7909 | 11.661         | 3.0866 | 0.019                  | 0.0050 |
| 665764 | 355.20       | 2.878            | 0.8102 | 11.442         | 3.2313 | 0.016                  | 0.0045 |
| 665765 | 362.00       | 2.911            | 0.8041 | 10.613         | 2.9318 | 0.015                  | 0.0041 |
| 665766 | 388.90       | 3.516            | 0.9041 | 14.101         | 3.6259 | 0.022                  | 0.0057 |
| 665767 | 324.90       | 2.918            | 0.8981 | 10.549         | 3.2468 | 0.014                  | 0.0043 |
| 665768 | 385.40       | 3.143            | 0.8155 | 11.865         | 3.0786 | 0.017                  | 0.0044 |
| 665769 | 357.70       | 2.831            | 0.7914 | 10.642         | 2.9751 | 0.018                  | 0.0050 |
| 665770 | 373.70       | 3.813            | 1.0203 | 12.746         | 3.4108 | 0.019                  | 0.0051 |
| 665771 | 331.40       | 3.018            | 0.9107 | 12.111         | 3.6545 | 0.017                  | 0.0051 |
| Mean   | 357.88       | 3.105            | 0.8689 | 11.574         | 3.2341 | 0.018                  | 0.0050 |
| S.D.   | 24.679       | 0.316            | 0.0781 | 1.223          | 0.2542 | 0.002                  | 0.0006 |

FBW - Final Body Weight

Company Sanitized. Does not contain TSCA CBI

## **APPENDIX J**

### **Individual Animal Pathology Data**

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## INDIVIDUAL ANIMAL PATHOLOGY DATA

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### KEY TO APPENDIX

#### LESION GRADING:

Histopathology changes are described according to their morphologic character, distribution and severity. The distribution (extent of tissue involvement) is indicated, where appropriate, by modifiers such as focal, multifocal, diffuse, unilateral, bilateral, etc. A severity score, if appropriate, is also assigned as follows:

- MINIMAL: The amount of change present barely exceeds that which is considered to be within normal limits.
- MILD: In general, the lesion is easily identified but of limited severity. The lesion probably does not produce any functional impairment.
- MODERATE: The lesion is prominent but there is significant potential for increased severity. Limited tissue or organ dysfunction is possible.
- SEVERE: The degree of change is either as complete as considered possible or great enough in intensity or extent to expect significant tissue or organ dysfunction.

#### COMMENT:

Grades minimal through severe represent progressive involvement/severity along a continuum with minimal lesions being the least severe and severe lesions being the most severe. While the grades refer to the morphologic characteristics of lesions, they also indicate their relative biologic significance.

Gross observations listing multiple masses for a tissue are distinguished with letters (i.e., A, b, c, d, etc.).

Individual Animal Pathology Data

Dose Group : I 0 mg/kg Sex: Males

-----  
Animal Ref            Microscopic & Macroscopic Findings  
-----

665732            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.

No Microscopic Abnormality Observed :  
KIDNEYS, THYROID GLAND, SKIN, TEETH

665733            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
KIDNEYS :  
NEPHROPATHY, CHRONIC PROGRESSIVE, minimal.

665733 Continued on the next page ....

Individual Animal Pathology Data

Dose Group : I 0 mg/kg Sex: Males

-----  
Animal Ref            Microscopic & Macroscopic Findings  
-----

665733            Continued from previous page

Histopathology :

No Microscopic Abnormality Observed :  
THYROID GLAND, SKIN, TEETH

665734            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
INFLAMMATION, SUBACUTE/CHRONIC, FOCAL, minimal.  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.

KIDNEYS :  
NEPHROPATHY, CHRONIC PROGRESSIVE, minimal.

No Microscopic Abnormality Observed :  
THYROID GLAND, SKIN, TEETH

665735            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665735 Continued on the next page ....

Individual Animal Pathology Data

Dose Group : I 0 mg/kg Sex: Males

-----  
Animal Ref                      Microscopic & Macroscopic Findings  
-----

665735                      Continued from previous page

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
INFLAMMATION, SUBACUTE/CHRONIC, FOCAL, minimal.

No Microscopic Abnormality Observed :  
KIDNEYS, THYROID GLAND, SKIN, TEETH

665736                      Terminal Sacrifice  
                             Killed on Day : 29  
                             Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
KIDNEYS :  
NEPHROPATHY, CHRONIC PROGRESSIVE, minimal.

No Microscopic Abnormality Observed :  
THYROID GLAND, SKIN, TEETH

Individual Animal Pathology Data

Dose Group : I 0 mg/kg Sex: Males

-----  
Animal Ref            Microscopic & Macroscopic Findings  
-----

665737            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.

No Microscopic Abnormality Observed :  
KIDNEYS, THYROID GLAND, SKIN, TEETH

665738            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
INFLAMMATION, SUBACUTE/CHRONIC, FOCAL, minimal.

665738 Continued on the next page ....

Individual Animal Pathology Data

Dose Group : I 0 mg/kg    Sex: Males

-----  
Animal Ref                      Microscopic & Macroscopic Findings  
-----

665738                      Continued from previous page

Histopathology :

No Microscopic Abnormality Observed :  
KIDNEYS, THYROID GLAND, SKIN, TEETH

665739                      Terminal Sacrifice  
                             Killed on Day : 29  
                             Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
MACROPHAGES, PIGMENTED, FOCAL, minimal.  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
INFLAMMATION, SUBACUTE/CHRONIC, FOCAL, minimal.  
KIDNEYS :  
NEPHROPATHY, CHRONIC PROGRESSIVE, minimal.

No Microscopic Abnormality Observed :  
THYROID GLAND, SKIN, TEETH

665740                      Terminal Sacrifice  
                             Killed on Day : 29  
                             Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665740 Continued on the next page ....

Individual Animal Pathology Data

Dose Group : I 0 mg/kg Sex: Males

Animal Ref Microscopic & Macroscopic Findings

665740 Continued from previous page

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
KIDNEYS :  
NEPHROPATHY, CHRONIC PROGRESSIVE, minimal.

No Microscopic Abnormality Observed :  
THYROID GLAND, SKIN, TEETH

665741 Terminal Sacrifice  
Killed on Day : 29  
Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
INFLAMMATION, SUBACUTE/CHRONIC, FOCAL, minimal.

No Microscopic Abnormality Observed :  
KIDNEYS, THYROID GLAND, SKIN, TEETH

Company Sanitized. Does not contain TSCA CBI

Individual Animal Pathology Data

Dose Group : III 10 mg/kg Sex: Males

-----  
Animal Ref            Microscopic & Macroscopic Findings  
-----

665742            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665743            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665744            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665745            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Company Sanitized. Does not contain TSCA CBI

Individual Animal Pathology Data

Dose Group : III 10 mg/kg Sex: Males

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Animal Ref            Microscopic & Macroscopic Findings  
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665746            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665747            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665748            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665749            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Company Sanitized. Does not contain TSCA CBI

Individual Animal Pathology Data

Dose Group : III 10 mg/kg Sex: Males

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Animal Ref            Microscopic & Macroscopic Findings  
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665750            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665751            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Individual Animal Pathology Data

Dose Group : V 100 mg/kg Sex: Males

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Animal Ref            Microscopic & Macroscopic Findings  
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665752            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665753            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665754            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

TESTES :  
LARGE, BILATERAL, mild.

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665754 Continued on the next page ....

Individual Animal Pathology Data

Dose Group : V 100 mg/kg Sex: Males

Animal Ref Microscopic & Macroscopic Findings

665754 Continued from previous page

Histopathology :

TESTES :

NO MICROSCOPIC EVIDENCE OF MACROSCOPIC FINDING.

No Microscopic Abnormality Observed :

TESTES

665755

Terminal Sacrifice

Killed on Day : 29

Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :

LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665756

Terminal Sacrifice

Killed on Day : 29

Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :

LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665757

Terminal Sacrifice

Killed on Day : 29

Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :

LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Individual Animal Pathology Data

Dose Group : V 100 mg/kg Sex: Males

Animal Ref                      Microscopic & Macroscopic Findings

665758                      Terminal Sacrifice  
                             Killed on Day : 29  
                             Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665759                      Terminal Sacrifice  
                             Killed on Day : 29  
                             Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665760                      Terminal Sacrifice  
                             Killed on Day : 29  
                             Animal is signed off from necropsy

Gross Pathology :

KIDNEYS :  
DILATATION, UNILATERAL.

No Macroscopic Abnormality Observed :  
LIVER, THYROID GLAND, SKIN, TEETH

665760 Continued on the next page ....

Individual Animal Pathology Data

Dose Group : V 100 mg/kg Sex: Males

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Animal Ref            Microscopic & Macroscopic Findings  
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665760            Continued from previous page

Histopathology :

KIDNEYS :

DILATATION, PELVIS, UNILATERAL, mild.

665761

Terminal Sacrifice

Killed on Day : 29

Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :

LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Individual Animal Pathology Data

Dose Group : VII 1000 mg/kg Sex: Males

Animal Ref            Microscopic & Macroscopic Findings

665762            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
INFLAMMATION, SUBACUTE/CHRONIC, FOCAL, minimal.

No Microscopic Abnormality Observed :  
KIDNEYS, THYROID GLAND, SKIN, TEETH

665763            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
INFLAMMATION, SUBACUTE/CHRONIC, FOCAL, minimal.

665763 Continued on the next page ....

Individual Animal Pathology Data

Dose Group : VII 1000 mg/kg Sex: Males

Animal Ref                      Microscopic & Macroscopic Findings

665763                      Continued from previous page

Histopathology :

KIDNEYS :  
NEPHROPATHY, CHRONIC PROGRESSIVE, minimal.

No Microscopic Abnormality Observed :  
THYROID GLAND, SKIN, TEETH

665764                      Terminal Sacrifice  
Killed on Day : 29  
Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
INFLAMMATION, SUBACUTE/CHRONIC, FOCAL, minimal.

KIDNEYS :  
NEPHROPATHY, CHRONIC PROGRESSIVE, minimal.

No Microscopic Abnormality Observed :  
THYROID GLAND, SKIN, TEETH

Company Sanitized. Does not contain TSCA CB!

Individual Animal Pathology Data

Dose Group : VII 1000 mg/kg Sex: Males

Animal Ref                      Microscopic & Macroscopic Findings

665765                      Terminal Sacrifice  
                             Killed on Day : 29  
                             Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.

No Microscopic Abnormality Observed :  
KIDNEYS, THYROID GLAND, SKIN, TEETH

665766                      Terminal Sacrifice  
                             Killed on Day : 29  
                             Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.

KIDNEYS :  
NEPHROPATHY, CHRONIC PROGRESSIVE, minimal.

665766 Continued on the next page ....

Company Sanitized. Does not contain TSCA CBI

Individual Animal Pathology Data

Dose Group : VII 1000 mg/kg Sex: Males

Animal Ref Microscopic & Macroscopic Findings

665766 Continued from previous page

Histopathology :

No Microscopic Abnormality Observed :  
THYROID GLAND, SKIN, TEETH

665767 Terminal Sacrifice  
Killed on Day : 29  
Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
INFLAMMATION, SUBACUTE/CHRONIC, FOCAL, minimal.  
TEETH :  
HEMORRHAGE, mild, peridental .  
INFLAMMATION, ACUTE, mild, peridental .

No Microscopic Abnormality Observed :  
KIDNEYS, THYROID GLAND, SKIN

665768 Terminal Sacrifice  
Killed on Day : 29  
Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

665768 Continued on the next page ....

Individual Animal Pathology Data

Dose Group : VII 1000 mg/kg Sex: Males

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Animal Ref                      Microscopic & Macroscopic Findings  
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665768                      Continued from previous page

Histopathology :

LIVER :

HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
INFLAMMATION, SUBACUTE/CHRONIC, FOCAL, minimal.

No Microscopic Abnormality Observed :  
KIDNEYS, THYROID GLAND, SKIN, TEETH

665769                      Terminal Sacrifice  
                             Killed on Day : 29  
                             Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :

HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
INFLAMMATION, SUBACUTE/CHRONIC, FOCAL, minimal.  
NECROSIS, HEPATOCELLULAR, FOCAL, minimal.

KIDNEYS :

NEPHROPATHY, CHRONIC PROGRESSIVE, minimal.

No Microscopic Abnormality Observed :  
THYROID GLAND, SKIN, TEETH

Individual Animal Pathology Data

Dose Group : VII 1000 mg/kg Sex: Males

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Animal Ref            Microscopic & Macroscopic Findings  
-----

665770            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.  
INFLAMMATION, SUBACUTE/CHRONIC, FOCAL, minimal.  
KIDNEYS :  
NEPHROPATHY, CHRONIC PROGRESSIVE, minimal.

No Microscopic Abnormality Observed :  
THYROID GLAND, SKIN, TEETH

665771            Terminal Sacrifice  
                 Killed on Day : 29  
                 Animal is signed off from necropsy

Gross Pathology :

No Macroscopic Abnormality Observed :  
LIVER, KIDNEYS, THYROID GLAND, SKIN, TEETH

Histopathology :

LIVER :  
HEMATOPOIESIS, EXTRAMEDULLARY, minimal.

665771 Continued on the next page ....

Individual Animal Pathology Data

Dose Group : VII 1000 mg/kg Sex: Males

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Animal Ref            Microscopic & Macroscopic Findings  
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665771            Continued from previous page

Histopathology :

LIVER :  
    INFLAMMATION, SUBACUTE/CHRONIC, FOCAL, minimal.  
KIDNEYS :  
    NEPHROPATHY, CHRONIC PROGRESSIVE, minimal.

No Microscopic Abnormality Observed :  
    THYROID GLAND, SKIN, TEETH